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FIGURE 2134

GGCATCACTCGAGCCCAGGTCCCAGTCATCACCCTCACAGCGCTCGGCGTTTCAGGAAGAGGAGCACCAGCGGAG
CGCGGCTGCTTCAGCGGGCGGGCGGGCGCCAGAAAGGCCCGATCGAAAAGCCTGGGAGGGCCGCCGAACCTACCCC
CGGAGGGAGGAGCCAGTCCGAACCCAAAGCGCCACCGCCGAGAAAGCGGAGCGAGGCAGCATTTCGCTCCATGGC
CCACTCGCCGGTGGCTGTCCAAGTGCTGGGATGCAGAATAACATAGCTGATCCAGAAGAACTGTTACAAAATT
AGAGCGCATTGGGAAAGGCTCATTGTTGGGAAGTTTTCAAAGGAATTGATAACCGTACCCAGCAAGTCGTTGCTAT
TAAAATCATAGACCTTGAGGAAGCCGAAGATGAAATAGAAGACATTTCAGCAAGAAATAACTGTCTTGAGTCAATG
TGACAGCTCATATGTAACAAAATACTATGGGTTCATTTTAAAGGGGTCTAAATTATGGATAATAATGGAATACCT
GGGCGGTGGTTTCAGCACTGGATCTTCTTCGAGCTGGTCCATTTGATGAGTTCCAGATTGCTACCATGCTAAAGGA
AATTTTAAAAGGTCTGGACTATCTGCATTTCAGAAAAGAAAATTACCGAGACATAAAAGCTGCCAATGTCTTGCT
CTCAGAACAAGGAGATGTTAACTTGCTGATTTTGGAGTTGCTGGTCAGCTGACAGATACACAGATTAAAAGAAA
TACCTTTGTGGGAACCTCATTGTTGGATGGCTCCTGAAGTTATTCAACAGTCAGCTTATGACTCAAAAGCTGACAT
TTGGTCATTGGGAATTACTGCTATTGAACTAGCCAAGGGAGAGCCACCTAACTCCGATATGCATCCAATGAGAGT
TCTGTTTCTTATTTCCAAAAACAATCCTCCAACCTCTGTTGGAGACTTTACTAAGTCTTTTAAAGGAGTTTATTGA
TGCTTGCTGAACAAAGATCCATCATTTCGTCTTACAGCAAAAGAACTTCTGAAACACAAATTCATTGTAAAAAA
TTCAAAGAAGACTTCTTATCTGACTGAACTGATAGATCGTTTTAAGAGATGGAAGGCAGAAGGACACAGTGATGA
TGAATCTGATTCCGAGGGCTCTGATTCCGAATCTACCAGCAGGGAAAACAATACTCATCTGAATGGAGCTTTTAC
CACCGTACGAAAGAAGCCTGATCCAAAGAAAGTACAGAATGGGGCAGAGCAAGATCTTGTGCAAAACCTGAGTTG
TTTGTCTATGATAATCACACCTGCATTTGCTGAACTTAAACAGCAGGACGAGAATAACGCTAGCAGGAATCAGGC
GATTGAAGAACTCGAGAAAAGTATTGCTGTGGCTGAAGCCGCCTGTCCCGGCATCACAGATAAAATGGTGAAGAA
ACTAATTGAAAAATTTCAAAGGTGTTTCAGCAGACGAATCCCCCTAAGAAACTTATTATTGGCTTCTGTTTCATAT
GGACCCAGAGAGCCCCACCAAACCTACGTCAAGATTAACAATGCTTAACCCATGAGCTCCATGTGCCCTTTTGGAT
CTTTGCAACACTGAAGATTTGGAAGAAGCTATTAACTATTTTGTGATGGCGTTTATCATTTTATATTTTGAAG
GATTATTTTGTAAAGGAATAACTTTTAATACTATAGTTTCACCTGTATTCTAGTAAATGTTGAGACACCGTTTTGC
TTTTAAGTATCCCTATTTCTTAAGTTACGAGGATGAATACCTTTACATTTTGATCTTTAGTTGACTCTACAGTC
ATGAAACATACAGGTCTTTCAAAGTCATTCTCAATATTCAGCTTTTGTAAATTATCAAGCTTCAAAAAGCTTTTT
TTTTAAAAAAAAAAAAACATGCATATTCTAAAAATGACTATTGGTGGGGAGGTGTAAATAAGTCATACCTTCTTAA
ACAGAAAAATTTAAGTAAAGTCTTTTAAATGAAACCTGTAAAAGTATTGACTCTTCTACCAAGTTGGTATGATATT
CCAGGCAGCTCAATGATTATCACATTTGAGACCCCTGTGTTTGAAGCATTTACAGGCAATGTACAGCAACAGAGGT
ACCTCTTGGTGTATAGTATTTACATTCTCTTTTAGGTAGAAGAGGCAATTTTACCCTTATTTACATGGTTAGAA
ATTTAAAGCAAGATCATTTACCCAAGGATAGGTGTTTGGTAATGTTGAAGGAGTTAGTCTGGCTTCATGTTTTAC
ATCTTCAACTAAAATCCCATATCTGCTTGGATTGAGAGGCCAAAAAATAAAGCTGATTGTCATGTGATTAA
ATATCTGATCAACAGGTATGAATATAACTTAAATCAGCATATTTTGGCATGGTAATAAATTGTCTATAAACTA
TTTATATATTTTGTCTTCATAATTATCACTAATAAGCATCAGTTTGTGTTTTTAAAGGATATTTAAGTGAG
CATTTTCTAGTTCATATGAAAATAACCATAGTACAGGATGATTCTGTCCACACAAAGGTTAAATTAGATTGCAC
AGTTAATTTTCACTTATATTTATGGTACTATTATGTGGGTGATGCCCTTTTCTTTTAAAGCCAGTACATATATTA
TGCTTGCTAAGTTCTGAACTGGGGCTGTATTTTCAGTAGTTGTAGAATTATTGATATTTAGTTTTGATAGCTAAT
GTTTAATTGTTTGGATCTGCACAGTTTGGTTTTTGCACAAAAGTCATTTAAAAAATCTGAGTAATTGTCAAATA
TTAAAGAAAGATATTTCTTCTGTAAAGGAATACAGTTTTTGTCAAGTGGCCATTACATCTCTTTTTTAATTTA
CATAATACAGATACTTGAGAAAGTTGTTGTGGTGTGTATGCCAAGAAATTCCTTTTTATTGGTGCCTATATTGT
AACAATTATTTTAAATGCATTGTATTTTGAAGTAACGGTTCAGTTAAATTTTTCACCTGCTGTGTAAGTGAAGCA
CAATTACAGTTTATAATCATCTGTAGAAGTCTGGAGATAATTTTGCAACTCATGTTATGGGTTAAATGAATATTT
TTGTAAAAGTAAAAGCAACAAATTTATAAATTGATTATTTGAAACTTTTACAACACAATTGCATCCCCAAATACAAA
TTGTATTGCTTATTCATTATAGCTATTCGTCTGTAACTGTCTTAGGTGAAGCATACTCCAGTGTTTTAGGGG
TTTTGAAAATAAATATTTAAATTTTACAGTCAAAAAA

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FIGURE 2135

MAHSPVAVQVPGMQNNIADPEELFTKLERIGKGSFGEVFKGIDNRTQQVVAIKIIDLEEADEDEIEDIQQEITVLS
QCDSSYVTKYYSYLKGSKLWII MEYLG GGSALDLLRAGPFDEFQIATMLKEILKGLDYHSEKKIHRDIKAANV
LLSEQGDVKLADFGVAGQLTDTQIKRNTFVGTPFWMAPEVIQQSAYDSKADIWSLGITAIELAKGEPPNSDMHPM
RVLFLIPKNNPPTLVGDFTKSFKFIDACLNKDPSFREPTAKELLKHKFIVKNSKKTSYLTTELIDRFKRWKAEGHS
DDES DSEGS DSEST SRENNTHPEWSFTTVRKKPDPKKVQNGAEQDLVQTLSCLSMIITPAFAELKQDENNASRN
QAIEELEKSI AVAEAAACPGITDKMVKKLIEKFQKCSADESP

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FIGURE 2136

GGCAGACTTAATGAAGTCATTAGAACCTTAACTCAGGTCATTAGTGTCTCTGGGGTGATTGGTCTCCAGTCAAAT
GCAGTCTGGCTTCTTGGACATCTTCATCTATCTACTCTATCCTCAAGTCAAAGTAGAGCCTCTGTTCCCTACTGAC
TATAGCTACTTGCCTGAAAGCAGTTTTATTGGAGCAGCTATTGGCTTCTTCATTGCAGGAGGAAAAAAGGTCCT
GAATCTGTGCCTCCTTCCCTTCTTAAAGTAGTGATGAAACCCATAGCAACTGTTGGAGAAAGCTACCAATATCCT
CCTGTGAACTGGGCTGCACTTCTCTCTCCACTTATGAGGCTAAATTTTGGTGAAGAGATCCAGCAACTGTGCCTT
GAAATTATGGTGACCCAGGCACAGTCATCCCAGAATGCAGCTGCACTATTGGGCTTGTGGGTGACACCACCACTG
ATCCACAGTCTGAGTCTGAATACCAAGAGATATCTCCTGATATCTGCACCTCTGTGGATAAAACACATCTCTGAT
GAACAGATCCTGGGTTTTGTTGAAAATTTAATGGTGAGCTTTTTTAAAGCAGCTTCCCCACTTGGAAGTCCTGAG
CTATGCCCAAGTGCTTTACACGGTCTGAGCCAGGCCATGAACTGCCCAGCCCTGCCACCACTCTGGAGTCTG
CTCTCTGAAGCTACTGGGAAAATTTTTGACCTCCTGCCAAATAAGATTCTGGAGAAAGGATCTAGAGCTGTATATC
AGCATAGCAAAATGCCTCTTAGAAATGACAGATGATGATGCCAATCGGATCGCCAGGTTACTAAGAGCAACATA
GAAAAAGCTGCCTTTGTCAAACCTGTACTTAGTCTCTCAAGGACGATTCCCCTTGGTGAACCTGACCGATATGCTG
AGCGTTGCTGTGCAGCACCGTGAGAAAGAGGTGTTGGCCTGGATGATTCTGCACAGCTTATACCAGGCACGGATT
GTGAGCCATGCCAATACGGGCGTTTTGAAGAGAATGGAGTGGCTCTTGGAAGTATGAGGTTATATGAAATGTTGC
TTACCAGTCAACATCCTTTTACAATACGGCTCTTGACGAGGCTTTGGACTTCTTCTTGCTGATATTTGCAACCGC
AGTGGTTGCATGGGCTGACCACACTGCCCCTCTCCTCCTCGGCCTCAGTGCCAGTTGGTTGCCATGGCATCAGGA
GAATGGCCCCGGCTGGGCCAGTACCAAGCTTCTTGGCAGGAGTCCAATGCACAGGGTCACTCTGCAGGAGGTTCT
CACTCTCCTTCCCAATAGCATGGCTCTGCTGCTGCAGAAAGAGCCATGGAAGGAACAGACCCAGAAAGTTTATTGA
CTGGCTATTGAGCATCATGAAAGCCCTAAAGAAGCCCTCTCAGCACAGTCCAGGGATCTTTTGAAAGCCACCCT
GCTGTCTTGGAGAGTTCTCCCAGAGTTTAAAGAAGAAAAGCTGTATGGACCAGAGCATATGGTTGGTGAACAGTTTT
GCAGTAACCAGCAGCATTCTCAGCTGGATGAGGAAAAACCATATAAGTGAAGAAGTTTTTTCAGAAATTCATGCCTG
GTATTGCTGAGACATGATGCAGAGAGTTAAGGGTCATGAAAAGATGGCCACATCACTGACAGCTTGACACATGCC
TCCTAAGAGAGGAGTGCAATTGCTTTAGTACCCGGGCCAGTTGAGACTGAAACAGGAACCTTGATTTTCTTTATTT
GGCTTGAGTTCAATGTGGAGATTTTCTTTGTGAAAGCTTGAAGATATTATCTTCTCCCTGCTAAATTCCAGTAAA
ATAATGTTGTCAAAAAAAAAAAAAAAAAA

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FIGURE 2137

MKPIATVGESYQYPPVNWAALLSPLMRLNFGEEIQQLCLEIMVTQAQSSQNAAALLGLWVTPPLIHSLSLNTKRY
LLISAPLWIKHISDEQILGFVENLMVAVFKAASPLGSPCLPSALHGLSQAMKLPSPAHHLWSLLSEATGKIFDL
LPNKIRRKDLELYISIAKCLLEMTDDANRIAQVTKSNIEKAAFVKLYLVSQGRFPLVNLTDMLSVAVQHREKEV
LAWMILHSLYQARIVSHANTGVLKRMELWLELMGYMKCCLPVNLSQYGS

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FIGURE 2138

AGAAGGGCAACCTCGTGCTTTCTGCAGAGGAGACCGGAGGGCAGAAGGCAGAGTCCAGGCTTAGACTGCAGTTCC
TCGCTTACCTGTGCAGTCTAATTTTGAGCTGCCTCTTTGTAGTCTTAAAAGGCAGGAGCTTCGTGTTGTGGGTCT
GCTAACCCGTACGTTTCCGTGGGCAAGTCGTGTGTACTCCTCGCC**ATGG**CTCAGCTCCAAACACGCTTCTACACT
GATAACAAGAAATATGCCGTAGATGATGTTCCCTTCTCAATCCCTGCTGCCTCTGAAATTGCCGACCTTAGTAAC
ATCATCAATAAACTACTAAAGGACAAAAATGAGTTCCACAAACATGTGGAGTTTGATTTTCCTTATTAAGGGCCAG
TTTCTGCGAATGCCCTTGGACAAACACATGGAAGTGGAGAACATCTCATCAGAAGAAGTTGTGGAAATAGAATAC
GTGGAGAAGTGTACCGCACCCAGCCAGAGCAATGCATGTTCCATGATGACTGGATCAGTTCAATTAAAGGGGCA
GAGGAATGGATCTTGACTGGTTCTTATGATAAGACTTCTCGGATCTGGTCCTTGAAGGAAAGTCAATAATGACA
ATTGTGGGACATACGGATGTTGTAAAAGATGTGGCCTGGGTGAAAAAGATAGTTTGTCTGCTTATTATTGAGT
GCTTCTATGGATCAGACTATTCTCTTATGGGAGTGGAATGTAGAGAGAAACAAAGTGAAAGCCCTACACTGCTGT
AGAGGTCATGCTGGAAGTGTAGATTCTATAGCTGTTGATGGCTCAGGAATAAATTTTGCAGTGGCTCCTGGGAT
AAGATGCTAAAGATCTGGTCTACAGTCCCTACAGATGAAGAAGATGAAATGGAGGAGTCCACAAATCGACCAAGA
AAGAAACAGAAGACAGAACAGTTGGGACTAACAAGGACTCCCATAGTGACCCTCTCTGGCCACATGGAGGCAGTT
TCCTCAGTTCTGTGGTCAGATGCTGAAGAAATCTGCAGTGCATCTTGGGACCATAACAATTAGAGTGTGGGATGTT
GGGTCTGGCAGTCTTAAGTCAACTTTGACAGGAAATAAAGTGTTTAATTGTATTTCTATTCTCCACTTTGTAAA
CGTTTAGCATCTGGAAGCACAGATAGGCATATCAGACTGTGGGATCCCCGAATAAAGATGGTTCTTTGGTGTCG
CTGTCCCTAACGTCACATACTGGTTGGGTGACATCAGTAAAATGGTCTCCTACCCATGAACAGCAGCTGATTTC
GGATCTTTAGATAACATTGTTAAGCTGTGGGATACAAGAAGTTGTAAGGCTCCTCTCTATGATCTGGCTGCTCAT
GAAGACAAAGTTCTGAGTGTAGACTGGACAGACACAGGGCTACTTCTGAGTGGAGGAGCAGACAATAAATTGTAT
TCCTACAGATATTCACCTACCACTTCCCATGTTGGGGCA**TGAA**AGTGAACAATAATTTGACTATAGAGATTATTT
CTGTAAATGAAATTGGTAGAGAACCATGAAATTACATAGATGCAGATGCAGAAAGCAGCCTTTTGAAGTTTATAT
AATGTTTTTACCCTTCATAACAGCTAACGTATCACTTTTTCTTATTTTGTATTTATAATAAGATAGGTTGTGTTT
ATGAAATACAACTGTGGCATAACATTCTCTATACAACTTGAAATTAACTGAGTTTTACATTTCTCTTT

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FIGURE 2139

MAQLQTRFYTDNKKYAVDDVPFSIPAASEIADLSNIINKLLKDKNEFHKKHVEFDFLIKGQFLRMPLDKHMEVENI
SSEEVVEIEYVEKCTAPQPEQCMFHDDWISSIKGAEEWILTGSYDKTSRIWSLEGKSIMTIIVGHTDVVKDVAWVK
KDSLSCLLLSASMDQTILLWEWNVERNKV KALHCCRGHAGSVDSIAVDGSGTKFCSGSWDKMLKIWSTVPTDEED
EMEESTNRPRKKQKTEQLGLTRTPIVTLSGHMEAVSSVLWSDAEEICSASWDHTIRVWDVVGSGSLKSTLTGNKVF
NCISYSPLCKRLASGSTDRHIRLWDPRTKDGSLSLSLTSHTGWVTSVKWSPTHEQQQLISGSLDNIVKLWDTRSC
KAPLYDLAAHEDKVLSDWTDTGLLLSGGADNKLYSYRYSPTTSHVGA

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FIGURE 2140

CACCTCGCGGCCGTAGGCTAACGTGGAAGTCGGACCAGCCGGCCGGCGGAAGAACCTAGAGCGCGCTGCCTGGCG
AGTCAGGCGCGCGGGGCGGCGTTGGTGGTCTTCGCGGCGTAACTCGGCCTTTCCCTGGGAGGGAGTGATGGGGCGC
ACCGGGGCGGGGAGCGGGCGCCAGTGTAAGCCGCGCGGCGCCTGGCCCGGAGCGCGGGCGGCTGCGGGCGGCGGCG
GCGGCGGGCGCTGGAGGCCTGTGAGAGCCGAGCCCGGAGCGCCCGGCTTCCACGCCATGGGCCCCATGGGCAT
CCGCCTTTCCCCACTGGGGGTGGCAGTGTTTTGTCTGCTGGGGCTCGGCGTGCTCTACCACCTCTACTCGGGCTT
CTTGGCCGGCCGCTTCAGCCTCTTCGGCCTGGGCGGCGAGCCTGGCGGCGGCGGCGGGGCGGCGGCGGCGGCG
CGATGGGGGACCGTGGACTTGCGCGAGATGCTGGCTGTGTCACTGCTGGCCGAGTCCGCGGCGGCGGAGGAT
GAGGCGCGTCCGCGAGAGCAACGTCCCTCCACGAGAAGTCCAAGGGGAAGACGCGCGAGGGAGCCGAGGACAAGAT
GACCAGCGGCGACGTGCTGTCCAACCGCAAGATGTTCTACCTGCTCAAGACCGCCTTCCCCAGCGTCCAGATTAA
TACTGAGGAACACGTGGATGCAGCTGATCAGGAGGTTATCTTGTGGGATCATAAGATTCTGAGGATATCCTAAA
GGAAGTAACTACTCCTAAAGAGGTACCAGCAGAAAGTGTTACTGTCTGGATTGACCCACTTGATGCTACACAGGA
ATATACAGAGGATCTTCGAAAGTACGTCACTACTATGGTGTGTGTGGCTGTAAATGGTAAACCCATGCTAGGAGT
TATACATAAGCCATTTTCCGAATATACAGCTTGGGCAATGGTAGATGGTGGTTCAAATGTGAAAGCCCGCTCTTC
CTACAATGAGAAGACCCCAAGGATCGTTGTGTCTCGTTCCATTTCAGGGATGGTCAAACAGGTTCGCTCTTCAGAC
TTTTGGAAACCAGACTACAATTATCCAGCTGGTGGTGTGGTTATAAAGTTTTAGCACTTTTGGATGTGCCTGA
TAAGAGTCAAGAAAAAGCTGATTTATACATCCATGTGACATACATCAAAAAGTGGGATATATGTGCTGGTAATGC
CATCTTAAAAGCCCTAGGGGGGCATATGACTACCCTGAGTGGTGAAGAAATCAGTTACACTGGTTCAGACGGCAT
TGAAGGGGGACTCCTTGCTAGCATCAGAATGAACCACCAGGCCCTGGTCAGAAAACCTCCAGATCTAGAAAAGAC
AGGACATAAATGAGCATAACTGATTACAGGGTACAGTTCTTCACAGCTGAAATGGTTAGCCTGAGATGCTGGAAG
CTTCAAAGGATTGGTGGAGACTATGCATGGTTAAGGCCATCCCGAACTTTTTAAAGTATTTATGAAGCATCAGAG
ACTTATTTTCCCTGTAATAGAATGCAAAATCAGGGAAAATGGGTTGCTTTGTGTCTCAAGTATTGTCTTTATTTT
TGAGACTATTTTCATACAGTTGTCATACACAAGGCGCATATATATTTGTGAATTAAAATCTGTAGCTGAGTCT
AAAAAAAAAAAAAAAAAAAA

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FIGURE 2141

MAPMGIRLSPLGVAVFCLLGLGVLYHLYSGFLAGRFSLFGLGGEPGGGAAGPAAAAADGGTVDLREMLAVSVLAAV
RGGDEVRRVRESNVLHEKSKGKTREGAEDKMTSGDVLSNRKMFYLLKTAFFPSVQINTEEHVDAADQEVILWDHKI
PEDILKEVTTTPKEVPAESVTWIDPLDATQEYTEDLRKYVTTMVCVAVNGKPMLGVIHKPFSEYTAWAMVDGGSN
VKARSSYNEKTPRIVVSRSHSGMVKQVALQTFGNQTTIIPAGGAGYKVLALLDVPDKSQEKADLYIHVTYIKKWD
ICAGNAILKALGGHMTTLSGEEISYTGSDGIEGGLLASIRMNHQALVRKLPDLEKTGHK

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FIGURE 2142

GCGGTAGCGACAGGTCAGAGCTGCGGCCTGAGCAGCCAGCGTCCGGCATGAAGGTCTGGGGTCTGGCTGCTGCCT
GCTTCTTGCTCCAGCACCAATGGGAATGCCTGCGCAGTTTACCCTGCCTCCTGCCCCGCGCGATGAGACTTCCCCGG
CGGACGCTGTGTGCCCTGGCCTTGGACGTGACCTCTGTGGGTCTCCCGTTGCTGCCTGCGGGCCGCCGAGCCAAC
CTGATTGGAAGGAGCCGAGCGGCGCAGCTTTGCGGGCCCCGACCGGCTCCGCGTGGCAGGTGAAGTGCACCGGTTT
AGAACCTCTGACGTCTCTCAAGCCACTTTAGCCAGTGTAGCCCCAGTATTTACTGTGACAAAATTTGACAAACAG
GGAAACGTTACTTCTTTTGAAAGGAAGAAAACCTGAATTATACCAAGAGTTAGGTCTTCAAGCCAGAGATTTGAGA
TTTCAGCATGTAATGAGTATCACAGTCAGAAACAATAGGATTATCATGAGAATGGAGTATTTGAAAGCTGTGATA
ACTCCAGAGTGTCTTCTGATATTAGATTATCGTAATTTAACTTAGAGCAATGGCTGTTCCGGGAACCTCCCTTCA
CAGTTGTCTGGAGAGGGTCAACTCGTTACATAACCTTTACCTTTTGAGTTTAGAGCTATAGAAGCACTCCTGCAA
TATTGGATCAACACCCTTCAGGGGAAACTTAGCATTTTGCAGCCACTGATCCTTGAGACCTTGATGCTTTGGTG
GACCCCAAACATTCTTCTGTAGACAGAAGCAAACCTGCACATTTTACTACAGAATGGCAAAAGTCTATCAGAGTTA
GAAACAGATATTAAAATTTTCAAAGAGTCAATTTTGGAGATCTTGGATGAGGAAGAGTTGCTAGAAGAGCTCTGT
GTATCAAAATGGAGTGACCCACAAGTCTTTGAAAAGAGCAGTGCTGGGATTGACCATGCAGAAGAAATGGAGTTG
CTGTTGGAAAACCTACTACCGATTGGCTGACGATCTCTCCAATGCAGCTCGTGAGCTTAGGGTGCTGATTGATGAT
TCACAAAGTATTATTTTTCATTAATCTGGACAGCCACCGAAACGTGATGATGAGGTTGAATCTACAGCTGACCATG
GGAACCTTCTCTCTTTTCGCTCTTTGGACTAATGGGAGTTGCTTTTGGAATGAATTTGGAATCTTCCCTTGAAGAG
GACCATAGAATTTTTTGGCTGATTACAGGAATTATGTTTCATGGGAAGTGGCCTCATCTGGAGGCGCCTGCTTTCA
TTCTTGGACGACAGCTAGAAGCTCCATTGCCTCCTATGATGGCTTCTTTACCTAAAAAGACTCTTCTGGCAGAT
AGAAGCATGGAATTGAAAAATAGCCTCAGACTGGATGGACTTGGATCAGGAAGGAGCATCCTAACAAACCGTTAG

GAACAGCCCCGTGGATACTGAAGTTTTTTTTTATGGTAGTTACAGGAACTTCTGATACTCTTTTTTATTATTTTCT
TGTATAGAGTCAGACACTTGAAAAAACTAATGTTTGAAGACAAAATATTTTGGCAGTCACAATACCAGAAGTG
GATTGCATTTCCAGAATTYTGAGTTAAAGAAAACAAAGTATTTGCTTTGTAAAAGGCCAAAATTYTATTTCCCTACA
AACTTTAAATGCTGTTTTTATAGATGTGATATGAGGCAACACAAGCACAGACAGTTGCATAGATTTTAATTTATA
CATATCAAGAAAAGTGCAATTTTCATGCTGAATGAAGCGTAGGAACTTGACAAGCCCATAGGTAGCTATAGTTCTT
TGTCAGTATAGGGAATTATGTTTCATGTGAATTTCTGATTCTCAGGTGACTAAAAAGCTAGCATTYTATGTATTA
ACCTTACAACAGACTCTGTAAGTTTGAGCTTTAAAAACCAAACCTTTGACATAACCTTATTTCTTGATTTGCCCC
CTTTTTTTTTATAAAAGGTGAATAAAAAGAAATAATTTAATATC

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FIGURE 2143

MECLRSLPCLLPARAMRLPRRTLICALALDVTSGPPVAACGRRANLIGRSRAAQLCGPDRLRVAGEVHRFRTSDVS
QATLASVAPVFTVTKFDKQGNVTSFERKKTELYQELGLQARDLRFQHVMSITVRNNRIIMRMEYLKAVITPECLL
ILDYRNLNLEQWLFRELP SQLSGEGQLVTYPLPF EFRAIEALLQYWINTLQGKLSILQPLILETLDALVDPKHSS
VDRSKLHILLQNGKSLSELETDIKIFKESILEILDEEELLEELCVSKWSDPQVFEKSSAGIDHAEEMELLLENYY
RLADDLSNAARELRVLIDDSQSIIFINLDSHRNVMMRLNLQLTMGTFSLSLFGLMGVAFGMNLESSLEEDHRIFW
LITGIMFMGSGLIWRRLLSFLGRQLEAPLPMMASLPKKTLLADRSMELEKNSLRDLGLSGRSILTNR

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FIGURE 2144

GTGGTGCTTGTCTGCAGAGTCATGACCTCTTTCCGCTTGGCCCTCATCCAGCTTCAGATTTCTTCCATCAAATCA
GATAACGTCACCTCGCGCTTGTAGCTTCATCCGGGAGGCAGCAACGCAAGGAGCCAAAATAGTTTCTTTGCCGGA
TGCTTTAATTCTCCATATGGAGCGAAATATTTTCTGAATATGCAGAGAAAATTCCTGGTGAATCCACACAGAAG
CTTTCTGAAGTAGCAAAGGAATGCAGCATATATCTCATTGGAGGCTCTATCCCTGAAGAGGATGCTGGGAAATTA
TATAACACCTGTGCTGTGTTTGGGCCTGATGGAACCTTACTAGCAAAGTATAGAAAGATCCATCTGTTTGACATT
GATGTTCTTGAAAAATTACATTTCAAGAATCTAAAACATTGAGTCCGGGTGATAGTTTCTCCACATTTGATACT
CCTTACTGCAGAGTGGGTCTGGGCATCTGCTACGACATGCGGTTTGCAGAGCTTGCACAAATCTACGCACAGAGA
GGCTGCCAGCTGTTGGTATATCCAGGAGCTTTTAATCTGACCACTGGACCAGCCCATTGGGAGTTACTTCAGCGA
AGCCGGGCTGTTGATAATCAGGTGTATGTGGCCACAGCCTCTCCTGCCCGGGATGACAAAGCCTCCTATGTTGCC
TGGGGACACAGCACCGTGGTGAACCTTGGGGGGAGGTTCTAGCCAAAGCTGGCACAGAAGAAGCAATCGTGTAT
TCAGACATAGACCTGAAGAAGCTGGCTGAAATACGCCAGCAAATCCCCGTTTTTTAGACAGAAGCGATCAGACCTC
TATGCTGTGGAGATGAAAAAGCCCTAAAGTTTATGTTTCTAATGTGTACAGAAATAGGACGATATGATTCTACAA
CATAATCAACTCCCTATTAAATTCTTTAATGAAGAAAAAAATTTAAAAAAAAAAAAAAAAAAAA

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FIGURE 2145

MTSFRLALIQLQISSIKSDNVTRACSFIREAATQGAKIVSLPECFNSPYGAKYFPEYAEKIPGESTQKLSEVAKE
CSIYLIGGSIPEEDAGKLYNTCAVFGPDGTLLAKYRKIHLFDIDVPGKITFQESKTLSPGDSFSTFDTPYCRVGL
GICYDMRFAELAQIYAQRGCQLLVYPGAFNLTTGPAHWELLQRSRAVDNQVYVATASPARDDKASYVAWGHSTVV
NPWGEVLAKAGTEEAIVYSDIDLKKLAEIRQQIPVFRQKRSDLYAVEMKKP

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FIGURE 2146

CGGAAGCAGGAAGTGAGTTTGCGAACGGAGCAGCTGCTGCAGGGCCCC**ATG**GCGGACACCCAGTACATCCTGCCCCA
ATGACATCGGCGTGTCTAGCCTGGACTGCCGTGAGGCCCTCCGCCTGCTGTACCCACAGAGCGCCTCTATGCCCT
ACCACCTGTCCCGTGCCGCCTGGTACGGAGGCCCTGGCTGTGCTGCTTCAGACCTCCCCCTGAGGCCCCCTACATCT
ATGCTCTGCTCAGCCGCCTCTTCCGCGCCCAAGACCCCGACCAGCTGCGCCAACATGCCCTGGCTGAAGGCCTTA
CCGAGGAGGAGTATCAGGCGTTTCTGGTCTATGCCGCGGGTGTCTTACTCCAACATGGGCAACTACAAGTCCTTTG
GTGACACCAAGTTTGTTCCTCAACTTGCCCAAGGAAAAGCTGGAACGGGTGATCCTAGGGAGTGAGGCTGCTCAGC
AGCACCACAGAAGAAGTCAGGGGCCTCTGGCAGACCTGCGGGGAGCTTATGTTCTCTCTGGAGCCAAGGCTTCGAC
ACCTCGGACTGGGGAAGGAGGGAATCACCACCTATTTCTCTGGGAATTGTACCATGGAAGATGCCAAATTGGCCC
AGGACTTTCTGGACTCACAGAACCTCAGTGCCTACAACACCCGGCTCTTCAAAGAGGTCGATGGAGAAGGGAAGC
CCTACTACGAGGTGCGGCTGGCTTCTGTGCTTGGCTCAGAGCCTTCCCTGGACTCTGAGGTGACTTCCAAGCTGA
AGAGCTATGAATTCGGGGGAAGCCCTTTCCAGGTGACCCGGGGGGACTACGCGCCCATCCTCCAGAAGGTGGTGG
AGCAGCTGGAGAAAGCCAAGGCCTATGCAGCCAACAGCCACCAGGGGCAGATGCTGGCCCAGTATATAGAGAGCT
TCACCCAGGGCTCCATCGAGGCCCACAAGAGGGGCTCCCGCTTCTGGATCCAGGACAAAGGCCCCATCGTGGAGA
GTTACATCGGGTTTCATCGAGAGCTACCGCGACCCCTTTGGTTCCCGAGGAGAATTTGAAGGTTTCGTAGCTGTGG
TGAACAAGGCCATGAGTGCCAAGTTTGAGCGGCTGGTGGCGAGCGCAGAGCAGCTGCTGAAGGAGCTGCCCTGGC
CCCCAACCTTTGAGAAGGACAAGTTCTCACCCCTGACTTCACCTCCCTGGATGTTCTCACCTTCGCTGGCTCCG
GCATCCCTGCCGGCATCAACATCCCCAACTACGATGATCTGAGGCAGACGGAAGGCTTTAAGAACGTGTCGCTGG
GGAATGTGCTGGCTGTGGCCTACGCCACGCAGCGGGAGAAGCTTACCTTTCTGGAGGAGGATGACAAGGACCTGT
ACATCCTCTGGAAGGGGCCCTCCTTCGATGTGCAGGTGGGCCTGCACGAGCTGCTGGGCCATGGCAGTGGCAAGC
TCTTCGTACAGGACGAAAAAGGAGCATTCAACTTTGACCAGGAAACAGTGATCAACCCAGAGACGGGCGAGCAGA
TTCAGAGCTGGTATCGGAGCGGGGAGACCTGGGATAGCAAGTTTACGACCATCGCCTCCAGCTACGAAGAGTGCC
GGGCTGAGAGCGTGGGTCTCTACCTCTGTCTCCACCCGCAAGTGCTGGAGATCTTTGGCTTTGAGGGGGCTGATG
CGGAGGACGTGATCTACGTGAAGTGGCTCAACATGGTTTCGGGCCGGGCTGCTCGCTCTGGAGTTCTACACACCTG
AGGCCTTCAACTGGCGACAGGCCCATATGCAGGCCCGGTTTGTGATCCTGAGAGTCTTGCTGGAGGCTGGCGAGG
GACTCGTTACCATCACTCCACACAGGCTCCGATGGGCGCCAGATGCCCGGGTCCGCCTCGACCGCAGCAAGA
TCCGGTCTGTGGGCAAGCCTGCTCTAGAGCGCTTCCCTGCGGAGACTTCAGGTGCTGAAGTCCACAGGGGATGTGG
CCGGAGGGCGGGCCCTGTACGAGGGGTATGCAACGGTCACTGATGCGCCCCCGAGTGCTTCCCTACCCCTCAGGG
ACACGGTGCTGCTGCGTAAGGAATCTCGGAAGCTCATTTGTTACGCCAACACTCGCCTTGAAGGCTCAGACGTGC
AGCTTCTGGAATACGAGGCGTCAGCTGCTGGCCTCATCCGATCCTTCTCTGAGCGTTTCCAGAGGATGGACCCG
AGTTGGAGGAGATCCTCACACAGCTGGCCACAGCCGATGCCCGATTCTGGAAGGGCCCCAGTGAGGCCCCATCTG
GCCAAGCT**TG**AGGAAGATGTGTGGCCTTGCCCCCAATTCCATCAGACCAAGGCTGCAAGTGGCCCTCCATTCGTG
TGTGTATTTAGGGGCTGGGGAGGGGGAGGGGCAGGAGCTTGGACCTTGGTACTACCTCAGCTGAGGGTGGTGACA
CAACCCCTTCCATTTGTTCAGCACTTTCCAGCCTGCCAATTGCTTCCCTCTGTGATCTCATTTTCATCTGCACTGC
CATACGTGGAGTGAGCAAGACAGGGCTTACCATCCTGTCTACCAGATGAGGAAATGGCAGTTCTGAGAAGTCACT
GGTCTAGATCCCGCAGGTGGCACGTGACAGCTAGGGTTCAAAACGTTCTCACCAAATCCAATGCTCCTCACATAT
TAATTTTATAACCAGACAAATAAATATTAGAGACAACCAAAAAAAAAAAAAAAAAAAAAA

2428/2825
FIGURE 2147

MADTQYILPNDIGVSSLDCREAFRLSPTERLYAYHLSRAAWYGGGLAVLLQTSPEAPYIYALLSRLFRAQDPDQL
RQHALLAEGLTEEEYQAFVLVYAAGVYSNMGNYKSFGDTKFVPNLPKEKLERVILGSEAAQQHPPEVRGLWHTCGEL
MFSLEPRLRHLGLGKEGITTTFSGNCTMEDAKLAQDFLDSQNL SAYNTRLFKEVDGEGKPYEVRLASVLGSEPS
LDSEVTSKLSYEFGRGSPFQVTRGDYAPILQKVVEQLEKAKAYAANSHQGQMLAQYIESFTQGSIEAHKRGRSRFW
IQDKGPIVESYIGFIESYRDPFGSRGEFEGFVAVVNKAMSAKFERLVASAEQLLKELPWPPTFEKDKFLTPDFTS
LDVLTFA GSGIPAGINIPNYDDL RQTEGFKNVSLGNVLAVAYATQREKLT FLEEDDKDLYILWKGPSFDVQVGLH
ELLGHGSGKLFVQDEKGAFNFDQETVINPETGEQIQSWYRSGETWDSKFSTIASSYEECRAESVGLYLCLHPQVL
EIFGFEGADAEDVIYVNWLN MVRAGLLALEFYTPEAFNWRQA HMQARFVILRVLLEAGEGLVTITPTTGSDGRPD
ARVRLDRSKIRSVGKPALE RFLRRLQVLKSTGDVAGGRALYEGYATVTDAPPECFLT LRD TVLLRKESRKLIVQP
NTHLEGS DVQLLEYEASAAGLIRSFSE RFPEDGPELEEILTQLATADARFWKGPSEAPSGQA

[illegible]

2430/2825

FIGURE 2149

MFQAAGAAQATPSHDAKGGGSSTVQRSKSFSLRAQVKETCAACQKTVPMERLVADKLIFHNSCFCKKHCHTKLS
LGSYAALHGEFYCKPHFQQLFKSKGNYDEGFGRKQHKELWAHKEVDPGTKTA

2431/2825
FIGURE 2150

GACCCGAAACGGGGAAGTTGTCTTGTGTTGGAGAGGTTAGTAGAGCAGCGCGCGCTACCAGAGTCGTTTCTCTT
CGGAGTCTTAGGTGATCGAGGGTGTGCCCAGGGGGCGGACTTGTTTGCGCCTCCCGTTCCCTCCCAATTTCCAAA
CGTGTCACCCCGGCGCCGACGGCCCTGTGCAGGGGAAGCAGATGGAGTTCAAGCTGGAGGCTCATCGCATCGTCA
GCATCTCTCTGGGCAAGATCTACAACCTCGCGGGTCCAGCGCGGCGGCATCAAGCTGCATAAGAACCTCCTGGTCT
CGCTGGTGCTGCGCAGCGCCCGCCAAGTCTACCTGAGCGACCCGTGCCCGGCGCTCTACCTGGCCGGTCCCGCTG
GGACCCCGGCGCCGCCACCGCAGCAGCAGCCCGGGAGCCGCGCGCCGGGCCACCCGCCGGCTGGGGAGAGCCGC
CCCCGCCCCGCGCTCGTGCCCTCTTGCCCGGAGACCGAGCCGCAGCCGGAGCGCTCCTCCGTCTCAGACGCGCCGC
GGGTAGGGGACGAGGTGCCGTTGCCACGGTGACTGGAGTCGGGGACGTTTTTTCAGGGCGGAGAGGCGGACGCGA
CGGAAGCTGCCTGGAGCCGCTGGAGGGGCGCGCCAGGCGGCGGCCAGAGAAGCCGAGGGTACCGCCGGAGGCT
GGGGCGTCTTCCCCGAGGTATCTCGTGCCGCGCGCCGCCCTGCGGCTGCCCCCTAGGCGGGGAGGACCCGCCGG
GTACACCGGCCGCGACCCCCCGCGCTGCCTGCTGCTGCGCGCCGCGACCAGCGGAGGACGAGCCCCCGCGCCGC
CCGCGGTGTGCCCCAGGAAGCGCTGCGCGGCGGGGGTGGGCGGCGGCCAGCGGGCTGCCCCGCGCCCGGCTCGA
CCCCGCTCAAGAAGCCCCGCCGGAACCTAGAGCAGCCGCCGAGTGGAGGAGAGGACGACGACGCGGAGGAGATGG
AGACCGGGAACGTGGCTAACCTCATCAGCATCTTCGGTTCCAGTTTCTCGGGACTCCTACGGAAGACCCCGGGG
GCGGCAGAGAGGAAGAGGAGGAGAGGAGAGCGGTCCGGAAGCCGCCGAGCCGGGCAGATCTGCTGCGATAAGC
CGGTGCTGAGAGACATGAACCCCTGGAGCACAGCCATCGTGGCCTTCTGAGCCCTTGGTCCCCCTGCGGGGAGGA
GGTGGAGCAGCGGGCGTCCCCGAAGTGAGGGCCAGGCCCTTCCCGGCTGCGAGGACGCCAGAGACCGCGGGCGC
TGAGCGCGTTGGGCAGACTGGTTGCCTCTGGGCATCGCAAACCTGCCCCCGGCGCATCTGGCTTATCTGGAGACC
TGGGAGCTTGAGGCTCATTGGAAGAGGACGATCGTTAACTTTTGTGTTTGTGTATGTCTGTGTATGTAAGTTTGT
CTTGTGGCATTAAGACTATTTTGCTCTTCTGGAATGCACCACTCCTTCCCCAGGGTTTAAGAGATTGGGGGCAGA
CAGGGACTTTTCTCTGCCGGCTGCGTGGAGAAGGAAGCGGCTAAAAGGTTTGGGCCGGGGAGTTCCCCATTCTGTT
CTCCGGGGAGGGAGGGACTTTACACCTACCCCTCACCGGAAAGCTAGACCCGCTTCAGGGCCAGGAGTGGCGTTT
CCGCACAGGATTTCTAAGACGAGAGGGATTTAGCCAAGAGCACAGACTTGGATTCTTCTGTCCCTCCCCACCT
TTCTCTCCCAATGAAGAAACGTTTATATCCTGTGATTACTCTAGGAAAGGGGCGTATTAACGGTCCCTTTGCTTCC
CCGCAGGGGAGAAAAAGCTTGACGAACCTCACAGAAGAGTTCAAGCTTGGAATAATGGAGTTTATAGAGAAAAG
ATATATTTTTTAAAAGCTCTAGGTCAGAAGTACTACACAGTGCTTTTAAAAAGTGTTAATGAGAGTTTACAGACA
GAAGCCCGAAGTGGAAGACCTTATGGTTTTGTAGATATGGTGACTCCAGTCTTTGTTGTATAAAGGTTGGGGGA
GCTGATAAGGTTTTTGTACAGTATTTTCTCCTTCGTTGTATTGATTTTTGTATAAAAATGTAACCTCTACGTGTC
TAACACGTATTAAATATTTTGAAGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

2432/2825
FIGURE 2151

MEFKLEAHRIVSISLGKIYNSRVQRGGIKLHKNNLVSLVLR SARQVYLS DPCPGLYLAGPAGTPAPPPQQQPGEP
AAGPPAGWGEP PPPAARASWPETEPQFERS SVSDAPRVGDEVPVATVTGVGDV FQGGEADATEAAWSRVEGPRQA
AAREAEGTAGGWGVFPEVSRAARRPCGCPLGGEDPPGTPAATPRAACCCAPRPAEDEPPAPPAVCPRKRCAAGVG
GGPAGCPAPGSTPLKKPRRNLEQPPSGGEDDDAEEMETGNVANLISIFGSSFSGLLRKSPGGGEEEEEGEESGPE
AAEPGQICCDKPVLRDMNPWSTAIVAF

2433/2825
FIGURE 2152

TGTTTGGTATATTTAAAGCAGTGAAGTGTGTTTGTGAGTGGCTGAGTGCAGTGTCTTTTGTAAACACA
CTGCCCTCGTGTCTTTGTAGCTGATTGAGAGAGTTTGAATTGTGGGGTGGGAGACTAACTTCAGCTCCAGGCTGCA
GTAATGTGTTGGTAGTTACACTTGAGGCATTTTTTTGTGTTGTTAATTAACCTCTATAGTCTCAAACATTTTTTG
CAAATATATCATTTTTTCTAATTGGTTCTTGACGTGCAGTGGACTGGCTCTGTGAATGATTGGCAGGGTCTTAGT
TTTTCGAGAGCATTTCCTTCTAAGAATTATTGTGATCTGCAGAAACAGCCATTTGATTCAAAAATCATGTAGAAA
AGGAGTAGGAGAAGCAAAACGTTTCATTTTTTGGGCCTTAACCATTTGAAATGTTTGGACTTTAAACATAAAGCCA
TGGAGTTTATAAAGCCAAGTAACCATTTGATATGGATAATAATATCTACTCTAGAGAGAGTATATATATGCACAT
TGATTTTTAATGCTGTAAAGATACTTTGTAAACTGTAGGAACAAGAGTAATTAGACCAAATTTGAAGCTTAGGG
GACAGTAAAGTGGTTGCTTTCCATTTAGGGTAACCATGCATGTGGTTAGTCTCTCCTCCTGAGATTCAGAACCA
GTTGACTGTCCCTTAGGTGTATAAGGAGAAAAGTTGACATGTCTGGGACCTCTGACATGTGTACACATGCTTGC
ACACATGCACACACAGTGAATGTTTTAAGTTATACAAACATAAGACCTTAAGATGCAAAGAGCCAGAATATTCTA
AAGAGGTGATGAACAGAGGGGGTGGAACTGCATCACAGATGTTTTCCAAGGGCCAGGGTGAATCTGAGCTCTA
GTGTCTGACTTTGAGATGCATTATATTTTTTAACACATAAATGAGGGGATCCATATCACATTCTTTCTGTGGACC
ACCAAATTGAAGGCTTTCTTGTAATTCACAAGCAGCAGCTCTCCAGCATCTCTCCGTAGCCTGGGTGAAGTCCCA
GAAGCTGGTGTGCATCATTTTTCCAAGGTGGCAGAGCTGCTGTCTGAGATCATTCCTTTGAGAGAGGAGTACA
AGTGAAGAAACAAGGAGGCACTTCTGTAGGAGCACTGATGTGCTTGTCCACACTCCCTCTGAGCTTTACTGG
TAAGAGAGCTCCGACTGAACATGCTGAGCAGTTGAGCACTTTTCCATCAGCAACAACAGCGAGGATGGAAATGGA
AAGGAACCGAACTAAAATGCATTTCCCTTTGCAGGGCAGAGAGCTAAGCTCTTAGGAATAGTGTTATAGAAATAA
GCACCCTAACCTCAATTCTGAAAATGTTGGTTAATGGAGAGAATTTTGGAGTTTCACTTAATATTTTCCCATCG
GTCGCCATAAATAAGTCTTCAGGCGCTCCTAGAAGAGTCCCAGCCCAAGGCTCGATTAAGGACCACACTGCAGGT
CTGAGGCTCACTGCTCTGAGTCTGAACACCAGAGCCCTGCAGAGAGTGGTGATAACACATCATCTCTGCAAAGA
GGAACCTCTCCCCCGGCCGCACTTCACTCAGGCTTCTACTGAGCAGCAAGGACAGCCTGGGTTTCAAATGCCAC
TTCCCTGCTTTAGGGATCCAGGTGTCTGATAGCGTGAACCTGCTGAGGCAAGGTATCAACTCCGAGAGTGACT
GAGTCACTGAGCGTGGCACATGAACAAACGTCATGACAAAGATTCTCTGAGTGAAGTTAACACCACGTATTTTAC
CTTTGCAAAAAACAACTGGCACCCCTGAGTTCTAACTACGGACGGACGATATCTTTGCCTCCACACCCAGATTCC
TGGAAATGGCTAACGTTTCTTTCTAGGGGAAGGGTCGAGGAATACTCAAGTGCTAGCTTAGCAGCTTTGTTTACG
TCCAGATCAGAGCTGTTAGGTAAAGGCCTAACACCTCCCTGCAGTCTCTTATATCTCAAGCTTTAGGAACCCAT
TTCTAAATGTACACTAGCGGAGAATTTATATTGTCAGCCTTGATTACCATAGGACAGGCAGAAAGGCGATAATTT
GTATCTTTTAATATAAAAGAAGCTTTTAACTTTTCCAGCCTATTATAATAACTGAGTTATATTCACTGTGGCTCA
AACTAATTGGCATTGTGGAACATTTCTTTACCTTCAAAGTTTTCTCCACCAATCATTTTCAGTTCTATTGCAGTCC
TGGTGCCATATGTCCCTTGCAAATTGTGAAAGTAATTAGTGACAAAATAGCAGCCTGCTCCTTTTCAATGGCGAA
ACTGTGCGCATTAGCAGTTTTTGGGTAAGCTGGCGGTACTATAACACGTACTGGAAACCTGTTCTCATCACCACC
TACCAGATTCTGGAATGCCGTCTTCTAGAAAACGATGGCGTTTGTGGTGGTCTTCTTTTGAAGGAACAGTAAT
TTGTGTGGATATTGTTAAAGTGTTTAAAGAATATTTTGACAATTAAGTTTACATTTTACAATTGCTTTATTTTTT
ATTAATAAGTTGTATATAAATATTACCCTATTTCACTGTTGTTCAAGTAAATCTAAACCTTGTAGACAAGTGAG
TCATCTGATATGTATAGAAGCTGTGATATATAGAGTACATTTATTGTGTAAATGTTTATGAATATAATTGTTCTT
GTGTTTTTATAAGTTGGGGATATTTTGTGTTTTACGGCAACAAAATTTATTGCATTTAAATGGTTTTTATGTAA
TAGAAATCACGCAAAATAGTGAAGGATTTAAATATGTATATGATACATGTAAATGTACAACTTTAGAAAGAAA
TAAATCCAACAAATTTCAAAAAAAAAAAAAAAAAAAAAA

2434/2825
FIGURE 2153

MLVNGENFGVSLNIFPSVAINKSSGAPRRVPAQGSIKDHTAGLRLTALSPEHQSPAESGDNTSSLQRTSPPAAT
SLRLLLSSKDSLGFKCHFPCFRDPGVLIA

2435/2825
FIGURE 2154

CAGTTAGCTTCAAACAAAAACGAAAGTTAGACCAAGGGAACGTATTAGATATGGAAGTAAAGAAAAAGAAACATG
ATAACAAGAACAGAAAGGAAGTGTGGGAGCTACATTCAAATTAGGTGACTCTTTGTCAAACCCAAACGAAAGAG
CCATTGTTAAAGAAAAGATGGTATCAAATACTAAGTCTGTAGACACGAAAGCGAGTTTCATCTAAATTTAGTAGAA
TTCTAACTCCTAAGGAGTATTTACAAAGGCAGAAGCATAAAGAAGCTCCGAGTAATAAAGCATCGAAGAAAATCT
GTGTGAAAAACGTGCCATGTGATTCTGAACATATGAGACCAAGTAAACTTGCCGTGCAGGTTGAAAGTTGTGGGA
AATCAAATGAGAAACACAGCAGCGGCGTGCAGACCTCTAAAGAATCATTAAATGGCTTGACAAGCCATGGTAAAA
ACCTCAAATCCACCATTCTCAGGAGTCTAAAACATACAACATTCTAAGGAATGTTAAAGAAAAAGTTGGTGGGA
AGCAGCCTGATAAAATATGGATTGATAAGACTAAATTAGACAAATTAACCAATATAAGCAACGAAGCTCAATTCA
GCCAAATGCCTCCCCAAGTAAAGGATCAAAAAGAAATTATATCTGAATAGAGTTGGGTTTAAATGCACTGAACGTG
AAAGCATTCTCTCACCAAATTAGAAAAGTTCACCCAGGAAGCTTCATAAAGATAAGAGACAGGAAAATAAACATA
AGACCTTTTTTACCGGTGAAAGGTAACACAGAAAAATCAAACATGCTGGAGTTTAAATTATGTCCAGATATCTTAC
TAAAGAATACAACTCTGTGGAAGAACGGAAGGATGTAAAGCCTCATCCTAGGAAGGAGCAAGCCCCTCTGCAAG
TTTCAGGAATAAAAAGTACAAAAGAAGACTGGTTAAAATTTGTTGCTACAAAGAAAAGGACACAGAAAGACAGCC
AAGAGAGAGATAATGTTAATTCAAGACTCTCGAAGAGAAGCTTCAGTGCAGATGGATTTGAGATGCTACAAAACC
CAGTAAAAGATTCAAAGAAATGTTTCAAACCTACAAACAGATGTACCTGGAGAAGAGAAGCAGAAGCCTTGGT
GCAGTCCTGTAAAAATAATTACAAGATGTGGTTTTGTAATTGCCACTGGGAAATTTCTTTCCTTTCTGTTCAAAA
TATTTGCTGAACTAATGAGAAATGCCATGATAAAGATTTCTCAGAGTTTGTTCCCACTTTCATTGTATTTCA
TTGAAAGTGCTTAATTAAAATGGCTTGAGAACTTTGGGTAGCCATGTGTAAGAAATGGATGGTATTCACCGGGGA
AACAAGGTATTTGAATTTCTACTTTATTGAACCAGATTTACCATTATTTTAAAAGGAATGCTTATACAAATCAAT
TTGAAATTCTACCCATCTTGAGGGAGGACCGTTCCTCAGTTAAGGACTTGTTTATTTAAATGGGACTGTAAATAT
GTTTTGGTTTCTAAGCTATATTAGCAAAATTTATTTTCAAACGCCCCACTGTGATGTGAATGTCAAAATATAT
TCTTAAGTGTTTTATACTAATTGTAACTTTTTTTCAGAAGTCTTATTTTATACTTGTGAACTGAACACAATT
TTGGGACAACGTTTAAACATTACTTTTCATACTTGAAATAAACATTTATTTTTTAAAAAACT

2436/2825

FIGURE 2155

MEVKKKKHDKQEKGSGVGFATKLGDLSNPNERAIVKEKMSVNTKSVDTKASSSKFSRIILTPKEYLQRQKHKEAP
SNKASKKICVKNVPCDSEHMRPSKLAVQVESCGKSNEKHSSGVQTSKESLNGLTSHGKNLKIHHSQESKTYNILR
NVKEKVGKGKQPDKIWIDKTKLDKLTNISNEAQFSQMPPQVKDQKKLYLNRVGFKCTERESISLTKLESSPRKLHK
DKRQENKHKTFPLPVKGNTKSNMLEFKLCPDILLKNTNSVEERKDVKPHPRKEQAPLQVSGIKSTKEDWLKFBVAT
KKRTQKDSQERDNVNSRLSKRSFSADGFEMLQNPVKDSKEMFQTYKQMYLEKRSRSLGSSPVK

2437/2825
FIGURE 2156

TCTGAAGCGAATCAGTGGGAAGTGGCCTACAGTGGGTCGGCTACCGAATACACCTTCACCCACTTGAAACCAGGC
ACTTTGTACAACTCCGAGCATGCTGCATCAGTACCGGCGGACACAGCCAGTGTTCTGAAAGTCTCCCTGTTTCGC
ACACTAAGCATTGCACCAGGTCAATGTCGACCACCGAGGGTTTTGGGTAGACCAAAGCACAAAGAAGTCCACTTA
GAGTGGGATGTTCTGTCATCGGAAAGTGGCTGTGAGGTCTCAGAGTACAGCGTGGAG**ATG**ACGGAGCCCCGAAGAC
GTAGCCTCGGAAGTGTACCATGGCCCAGAGCTGGAGTGCACCGTCGGCAACCTGCTTCCTGGAAACCGTGTATCGC
TTCCGGGTGAGGGCTCTGAATGATGGAGGGTATGGTCCCTATTCTGATGTCTCAGAAATTACCACTGCTGCAGGG
CCTCCTGGACAATGCAAAGCACCTTGTATTTCTTGTACACCTGATGGATGTGTCTTAGTGGGTTGGGAGAGTCCT
GATAGTTCTGGTGCTGÀCATCTCAGAGTACAGGTTGGAATGGGGAGAAGATGAAGAATCCTTAGAACTCATTAT
CATGGGACAGACACCCGTTTTTGAAATAAGAGACCTGTTGCCTGCTGCACAGTATTGCTGTAGACTACAGGCCTTC
AATCAAGCAGGGGCGAGGGCCGTACAGTGAACCTTGTCCTTTGCCAGACGCCAGCGTCTGCCCCTGACCCCGTCTCC
ACTCTCTGTGTCTGAGGAGGAGCCCCCTTGATGCCTACCTGATTACCTTCTGCGTGCCTTGTACTGAACTGG
GAAGAGCCGTGCAATAACGGATCTGAAATCCTTGCTTACACCATTTGATCTAGGAGACACTAGCATTACCGTGGGC
AACACCACCATGCATGTTATGAAAGATCTCCTTCCAGAAACCACCTACCGGATCAGAATTCAGGCTATAAATGAA
ATTGGAGCTGGACCATTTAGTCAGTTCATTAAAGCAAAAACCTCGGCCATTACCACCCTTGCCCTCTAGGCTAGAA
TGTGCTGCTGCTGGTCTCAGAGCCTGAAGCTAAAATGGGGAGACAGTAACTCCAAGACACATGCTGCTGAGGAC
ATTGTGTACACACTACAGCTGGAGGACAGAAACAAGAGGTTTATTTCAATCTACAGAGGACCCAGCCACACCTAC
AAGGTCCAGAGACTGACGGAATTCACATGCTACTCCTTCAGAATCCAGGCAGCAAGCGAGGCTGGAGAAGGGCCC
TTCTCAGAAACCTATACCTTCAGCACAAACAAAAGTGTCACCCACCATCAAAGCACCTCGAGTAACACAGTTA
GAAGGAAATTCATGTGAAATTTTATGGGAGACGGTACCATCAATGAAAGGTGACCCTGTAACTACATTCTGCAG
GTATTGGTTGGAAGAGAATCTGAGTACAAACAGGTGTACAAGGGAGAAGAAGCCACATTCCAAATCTCAGGCCTC
CAGACCAACACAGACTACAGGTTCCGCGTATGTGCGTGTGCTGCTGTTTAGACACCTCTCAGGAGCTAAGCGGA
GCCTTCAGCCCCTCTGCGGCTTTTGTATTACAACGAAGTGAGGTCATGCTTACAGGGGACATGGGGAGCTTAGAT
GATCCCAAAATGAAGAGCATGATGCCTACTGATGAACAGTTTGCAGCCATCATTGTGCTTGGCTTTGCAACTTTG
TCCATTTTATTTGCCTTTTATATTACAGTACTTCTTAATGAAG**TAA**ACCCAACAAAACCTAGAGGTATGAATTAATG
CTACACATTTTAATACACACATTTATTCAGATACTCCCTTTTTTAAAGCCCTTTTGTTTTTTTGATTTATATACTC
TGTTTTACAGATTTAGCTAGAAAAAAATGTCAGTGTTTTGGTGCACCTTTTTGAAATGCAAACTAGGAAAAGG
TTAAACTGGATTTTTTTTTTTTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

2438/2825
FIGURE 2157

MTEPEDVASEVYHGPELECTVGNLLPGTVYRFRVRALNDGGYGPYSDVSEITTAAGPPGQCKAPCISCTPDGCVL
VGWESPDSSGADISEYRLEWGEDEESLELIYHGTDTTRFEIRDLLPAAQYCCRLQAFNQAGAGPYSELVLCQTPAS
APDPVSTLCVLEEEPLDAYPDSPSACLVLNWEEPCNNGSEILAYTIDLGDTSITVGNTTMHVMKDLLPETTYRIR
IQAINIEIGAGPFSQFIKAKTRPLPPLPPRLECAAAGPQSLKWKWGDSSNSKTHAAEDIVYTLQLEDNRNKRFSIYR
GPSHTYKVQRLTEFTCYSFRIQAASEAGEGPFSEYTFSTTKSVPTIKAPRVTQLEGNSCEILWETVPSMKGDP
VNYILQVLVGRESEYKQVYKGEETQISGLQTNTDYRFRVCACRRCLDTSQELSGAFSPSAAFVLQRSEVMLTG
DMGSLDDPKMKSMMPTEQFAAIIVLGFATLSILFAFILQYFLMK

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FIGURE 2158

GTACAGAAGCAAAATCAAACCTGCTATTTTCAGCACTCCTGTTTTAACTTGGTGTCTTTAGTGCTTGGATTGGTG
GGATGTTTTCGGAATGGGCATTGTGCGCCAATTTTCAGGAGTTAGCTGTGCCAGTGGTTCATGACGGGGGCGCTCTT
TTGGCCTTTGTCTGTGGTGTCTGTACACGCTCCTACAGTCCATCATCTCTTACAAATCATGTCCCCAGTGGAAC
AGTCTCTCGACATGCCACATACGGATGGTCATCTCTGCCGTTTTCTTGCGCAGCTGTCTATCCCCATGATTGTCTGT
GCTTCACTAATTTCCATAACCAAGCTGGAGTGGAATCCAAGAGAAAAGGATTATGTATATCACGTAGTGAGTGCG
ATCTGTGAATGGACAGTGGCCTTTGGTTTTATTTTCTACTTCCTAACTTTCATCCAAGATTTCCAGAGTGTCACC
CTAAGGATATCCACAGAAATCAATGGTGATATTTTGAAGAAAGAAGAATTCAGTCTCACTCAGTGAATGTGCGCAGG
CCATTTCTAAAAGTGCTACAGAGGACAGACAGGGTTTTGAGGCCACCCTGATTATTGGGATGCATCTGCAGCACA
TCCAGGACTTGAATTTCACTACGAGTTCCTAATAGTTGTATTTCTAAAGATGTGTTTCTAGAGAATGTACAGCC
TTATGACACTGTAGTGATGTTTTTATAATTTTCTAAGTAGATTTTTTTATATTAACAAATTCATATACAGAAAA
ATAAGGTGTTACAAAAAATGGAGAGCTCTTATTTTTGTACAGATTCTGTCGTTTTTTTTTTATTTGTGTGAGATTT
ATGGAAATACACTAAATGAGTAATTCAGGTTCAGTACATTTATTACAAAGTGAAATCAGGGGATATTCATTTGTA
AATTTTATTCTTAGTGAATGAAGTGTATAATTTTTTTTATCAGGAGAGCACTTATAAAATTCATTTATAAGAT
CATATACCCAAATCATAAAGATTTAGTTGATACATTAACTAAGATACTCTGATTTTTAGCGAACTAAACAAAG
TGCTTCTACTGAGAGGCCTTTATACCACCATGTACAGTAACTCTAAGTGAATACGGAAGACCTTGGTTTTGAAAT
TCTGCCACCTTGTTTCTCCCTGCTCATGAGGTGCGACCTTTTGCTCTTGCTGCTAATTGCCATTTCGTAGTGGGT
GTAATGCCAGGTGGAATGGTTTCAACAAGTCAGGTGAAAACCATCCTTTATTGTTGCTGGCACAACCTTGATATAT
AGTCTGACTCAGAACTGAAGCTCACATCTCAAATTCATTTTCATGCCAGTAAATGTGGCAAAGAGAAGAAAGGCC
AAGAGCGAGACAAGAAGAATGGAGAAGGGGGCAGCCAAGAAGAACTTCTGGGTTCAGGGTACTGTTTATTTGCTC
CTTCTCTTCATGCCTGTGGCTGGATGTCCCAACACTATAAGAAATATAAGTCAAGCCCTTTGTGTTAAGCAAG
AACTACAGACTCCATCTTTTACCCAAATCATGAATGACCAATAAAAAGCAAGTTATTCCAGAGGAAGAAGCAGC
CCTTGAAATGTTAAGGCTTAGGCTTGAAAGGTGAAGAGCAGGAATTCCTCTCTTCAAATCCTAGAGCATAAACCC
ATGTGTGGCCAAGTGAGATCAGCCCTCAAGGGCACATGCCAAGGGCAGAGCAGCCCATGTAGACAGCTTCGGAGG
GCATGGGGGTGTAGGGAGTTTCGGGGTAGCTCCTCATTAACCTATTTGTTGGGTGAGTAAAGGGGTGAGGCTCAGTG
GCAGGTACCTCTGCAATGACAAGCTGCCTCCCTCTATGTGTTTAGCATATGTTATTAGAACATGTCCGACACCC
CTACCGCTGCCATTTGGGCCCTTTAATAAAGCCAAGTAGAGAAATCTGGCAATAAAAGGCAAATGTAAGCATGCT
TTCTTTAAGACGCATCATAAATGGTTTTCTTTAAGTGAATGGAAGAGTTTGACAGAGATACACCTTTGTAAGAAA
ACATTAAGAATGCTGGCTGGCTGTGGTGGCTCACACCTGTATTCCCAGCACTTTGGGAGGCCTAGGCAGGAGGAT
TGCTTGAGCCTGGGACTTCGAGACCAGACTGGGAAACATGGCAAAATCCCATCTCTACAACAAAAATACAAAAAT
TAGCCAAGTGCGGTGGTGTGCCTGTAGTCCTAGTTACTTGGGAGGCTGAGGTGGGAGAATCACCTGAGCCCAGGA
GGTGGAGGCTGCAGTGAGCCATGCCAATGCACTCCAGTCTGGGCAACAGAGTGAGACCCTGTCTCAAAAAATAAT
AAATAAAATAAATGAATAAAGAGAATGCTAATCATTTCTGGGTTCAGTGCAGTCACTGTAGTGCTGGGGATCCCC
CTTGTAACACTGGAAGTGAAGGCAGTGATGAAAGCTATGTCAAGCATTCAATTATTCTGAAGAGGAGGAGAAATG
CCACATACCTTTCCCATGGGACCTGTGGTGGAAATGAATCCATACTTCTGCCTCACTTCGAGCAGACTTTTGTCT
CGGCGCTCCTCACGATGGAGTTTCATGCTTCATTTTCACATCTCTCTGCACAATTAGATTGGGAGCTCCTTGAGG
GCAGAGTACGTGCCTTAATCTTTATCTTTGTAATGCCACAATGAACAGAGTGCCTCCTGGTACACTGTAGGAGCT
TAAGAAATACTCACTGAATGCATGAATGAATGAATGAACAAATGAAGGAATGACTAAGGATGTTTGTAGTGCTAT
AATATAGAATGGGATTTACTCTGCTTTACCAGTTAGTTTCATAATAAACAATAGTCTGT

2440/2825
FIGURE 2159

MGIVANFQELAVPVVHDGGALLAFVCGVVYTLLQSIISYKSCPQWNSLSTCHIRMVISAVSCAAVIPMIVCASLI
SITKLEWNPREDYVYHVSAICEWTVAFGFIFYFLTFIQDFQSVTLRISTEINGDI

2441/2825
FIGURE 2160

TTCCGGGGCTAGGGAGCGCTTTCTCCCGGGAACCGCGGCTGTGACCCAAGTGGCCCGGACCAGTTTGGGGCTGCG
TGCGGCCTGCCTCAAGCAACCAGGTACGTAGGTCGGCGGCCAGCTCGGCGCTGCGGTGGGAGCCGGAGGGCGAC
AGTCAGAGCCGGGGTGCCAGCGGGACGCGACCGCCAGATCCACTTAGGACCCCGTCGTTCTGCGAAGCGGCCACG
TCTGAGTCCCGGGGCCTCCTCGTGCTGCAGATGTGCGCTTAGGACCTCGGCCAGGATACCTCTGCCATGCTCTT
GTGCTGCCCCGTGATCACCGACTGGCCCTTGTAAGCACCTTCGCAGCAGGAAGCCCAGAGCTGCGCCTGCCCTTTC
TGAAGGCTGTGGAAGAGGTTGGAGTGGGCGCATCTTAGCTTGCCCCATCCCCATTTGAGGTCTGTGCGAGCTGCC
CTTCAGTGTGAGCATCCACAATGGGTACCCCCAGCCTCGGTGGTCAGTGAGCCACCCCCCTTGGCAGGCCCCGATTG
AGGCCCCGGGGCCGCAAGCAGGCCTCGGCCAACATCTTCCAGGACGCCGAGCTGCTGCAGATCCAAGGCCTGTTTC
AACGCAGCGGGGACCAGCTGGCCGAGGAACGGGCACAGATCATCTGGGAATGTGCAGGGGACCACCGTGTGGCTG
AGGCCCTCAAGAGGCTGCGCAGGAAGAGGCCCCCAAGGCAGAAACCCCTGGGCCACTCGCTACACCACTGCAGCC
GCCTCAGAATCCTGGAGCCCCACTCTGCACTGGCCAACCCACAGAGTGCCACAGAGACAGCCTCCAGTGAGCAGT
ATCTGCACTCTAGGAAGAAAAGTGCCAGGATCCGCCGGAAGTGGAGGAAGTCAGGCCCCACAAGCTACCTCCACC
AGATCAGACACTGATCCAGGGAAAGAGCCAGGAATGGCAGTGTCTTCCCTCTTGCCAAAAGGCCTGGGGAGGTGA
AGGAAGAGAGACTTTAGGCAAGCAGCCCCAAAGGGGTAAATGAAAGCAAGAGGCTGCTGCCACTGACCTGCTCCAT
TCAGAACAAAGACTGGATGCTTCTGTTGAGCTCTCCATTATGTGGGACCCATTCTCACCAAAATGAGGAGAGACA
GTGACTGTTCCCTGCCACAGTCCTTCCCAGTCTAACACTATTCTGGGCTGCATGATATTCCCCTGGGAGCAAAGT
GACAGGCACTTAGATGCAGCATTTACCACTCATGCTACTAATCATCTACCTGCTACTACTGTAAACCATGGTTC
CAGCAGCCTGTTCCACACCCCCACACCATCAGGATAGCACAGGGAAACTGTAGTTTAAAGTGGCAAATAAAAACAT
TTGCATCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

2442/2825
FIGURE 2161

MGTPASVVSEPPWQAPIEARGRKQASANIFQDAELLQIQGLFQRSGDQLAEERAQIIWECAGDHRVAEALKRLR
RKRPFRQKPLGHSLHHCSRRLRILEPHSALANPQSATETASSEQYLHSRKKSARIRRNWRKSGPTSYLHQIRH

2443/2825
FIGURE 2162

GCGGGCGGTGGGGCTCACGGCCTAGGGAGGCGCGGAGGCATCTGGCAGAGGCGGGTCTGGGCTGGGCCAGCTGGGG
TAGAGCGGAGGAGCGGGTGCCGGCTGAAGCGGGGCGGTGGGCGCGGAGCGCGCTGGGGGCACCGACACCACCTCA
CCGGCAGCCGGGTGCTGAGGGCCGCGGTGTGGGTGCGCGGAGCAGTCAGGGCGCAGGTGGGCAGCGCGCACGGCC
TGCCAGCCCCGGGGCGCCAGAATCCTGCGCTGCGGGGCCGAGAGGGGCGCCGCGCCCCGCCGAGCCTGGAGCTTTC
CGCGAACCTCGGGGCGCCCATGACGGCGGGCGGCACGGCTACCGTGCTCAAGGAGGGCGTGCTGGAGAAGCGCAG
CGGCGGGCTGCTGCAGCTGTGGAAGCGGAAGCGCTGCGTCCCTCACCGAACGCGGGCTGCAGCTCTTCGAGGCCAA
GGGCACGGGCGGCCGGCCCAAGGAGCTCAGCTTCGCCCCGATCAAGGCCGTGGAGTGCCTGGAGAGCACCGGGCG
CCACATCTACTTCACGCTGGTGACCGAAGGGGGCGGCAGATCGACTTCGCTGCCCCCTGGAAGATCCCCGGCTG
GAACGCCCAGATCACCTTAGGCCTGGTCAAGTTCAAGAACGAGCAGGCCATCCAGACAGTGCGGGCCCCGGCAGAG
CCTCGGGACCGGGACCCTCGTGTCTTAAACCACCGGGCGACCATCTTTCCTTCATGTACCCACCACCTCAGTG
CTGAGGTCAAGGCAGCTTCGTTGTTCCCTCTGGCTTGTTGGGGGCACGGCTGTGCTCCATGTGGCAAGGTGGAAGG
CATGGACGTGTGGAGGAGGCGCTGGAGCTGAAGGAATGGACGAGCCCTGGGAGGAGGGCAGAAGGCTACGCAGGG
CTGAGGATGAAGATGCAGCCCCCTGGATGGTCCCAGACTCTCAGGACATGCCAGCTCAGGGGCTTCGAGCCACAG
GCCTGGCCTCATATGGCATGAGGGGGAGCTGGCATAGGAGCCCCCTCCCTGCTGTGGTCTGCCCTCTGTCTCTGC
AGACTGCTCTTAGCCCCCTGGCTTTGTGCCAGGCCTGGAGAGGGCAGTCCCCATGGGGTGCCGAGCCAACGCCT
CAGGAATCAGGAGGCCAGCCTGGTACCAAAAGGAGTACCCAGGGCCTGGTACCCAGGCCCCACTCCAGAATGGCCT
TGGACTCACCTTGAAAGGGGGAGCTGCTGGGCCTAAAGCCCACTCCTGGGGGTCTCCTGCTGCTTAGGTCCTTTT
GGGACCCCCACCCATCCAGGCCCTTTTTTGCACACTTTTCCCCCACCTTATGCATTTCCCCCACTGCGGTGTTT
GGCCTAAGGTGGTGGGGGTGAGGGGGGTTTGGCCATTAGCATTTTCATGTCTTTCCCCAAATGAAATGCCCTGCA
AAGGGCAGTAACCCC

2444/2825
FIGURE 2163

MTAAATATVLKEGVLEKRSGLLQLWKRKRCVLTERGLQLFEAKGTGGRPKELSFARIKAVECVESTGRHIYFTL
VTEGGGEIDFRCPLEDPGWNAQITLGLVKFKNQQAQTVRARQSLGTGTLVS

2445/2825
FIGURE 2164

GCTGCCGCATCCCAGGCTAAGCGCCGCGCCGAAAGCCGTGCGGAGATTGGAGGCCGCGCGGGTCCCTGGTCTGGG
CCATGTCTGGCTGTGATGCTGGGGAGGGAGACTGTTGTTCCCGGAGATGCGGCGCGCAGGACAAGGAGCATCCAA
GATACCTGATCCCAGAACTTTGCAAACAGTTTTTACCATTTAGGCTGGGTCACTGGGACTGGAGGAGGAATTAGCT
TGAAGCATGGCGATGAAATCTACATTGCTCCTTCAGGAGTGCAAAAGGAACGAATTCAGCCTGAAGACATGTTTTG
TTTGTGATATAAATGAAAAGGACATAAGTGGACCTTCGCCATCGAAGAAGCTAAAAAAGCCAGTGTACTCCTC
TTTTCATGAATGCTTACACAATGAGAGGAGCAGGTGCAGTGATTCATACCCACTCTAAAGCTGCTGTGATGGCCA
CACTTCTCTTTCCAGGACGGGAGTTTAAAATTACACATCAAGAGATGATAAAAGGAATAAAGAAATGTACTTCCG
GAGGGTATTATAGATATGATGATATGTTAGTGGTACCCATTATTGAGAATACACCTGAGGAGAAGACCCTCAAAG
ATAGAATGGCTCATGCAATGAATGAATACCCAGACTCCTGTGCAGTACTGGTCAGACGTCATGGAGTATATGTGT
GGGGGGAAACATGGGAGAAGGCCAAAACCATGTGTGAGTGTTATGACTATTTATTTGATATTGCCGTATCAATGA
AGAAAGTAGGACTTGATCCTTCACAGCTCCCAGTTGGAGAAAATGGAATTGTCTAAGCCAAAAGAAAGTCTAATT
ATATACAGAGATAAAGCTAAACGTAATTATTATTTAAATGAAAGCTATTTTTTTAAATGAATTGAAATTTTTCAT
GATGCTACTAATTTGCCACTAAATACTGCAAATGGTCACCCCTGAATCTCTTCTGACATTGGATGTTATTTGCTTA
TATTCTTATAATTTTAAATGAGGGCACAGTGAAATGAAAATTTTATACTCTATGTTTCTGTTTATTTTTAAATCC
TTAACAGCAAAATATTTGCCTTTAATTTCTTTTTTATATATACTCTCGAGAGAATTCCTCTTAATTTTTAAAGAT
GCTGGTGATAATAAAATTCATTAGAAAATTTCTCATTGTGGAATGAGCATTCTCTTGTTTTAATGTTGGTGTCA
GAAAATAAATATGAAACATTAAGTCC

2446/2825
FIGURE 2165

MSGCDAGEGDCCSRRCGAQDKEHPRYLIPELCKQFYHLGWVTGTGGGISLKHGDEIYIAPSGVQKERIQPEDMFV
CDINEKDISGPSPSKKLKKSQCTPLFMNAYTMRGAGAVIHTHSKAAVMATLLFPGREFKITHQEMIKGIKKCTSG
GYRYDDMLVVP I IENTPEEKT LKDRMAHAMNEYPDSCAVLVRRHGVYVWGETWEKAKTMCECYDYLFDI AVSMK
KVGLDPSQLPVGENGIV

2447/2825
FIGURE 2166

GCGGCCGCGGCCGTGAGCCTGCCCCAACTCGCCCTCAGCCGGCTGGCCGGCGCGGCC**ATGG**AGGTCTACATCCC
GTCCTTTCGCTATGAAGAGAGCGACCTGGAGCGGGGATACACGGTGTTTAAGATAGAAGTGCTAATGAATGGAAG
AAAACATTTTGTGAAAAGAGATACAGCGAATTTTCATGCTTTGCACAAAAAGCTTAAGAAATGTATAAAAACTCC
AGAAATCCCTTCTAAACATGTTAGGAACTGGGTCCCCAAAGTCTTGGAACAGCGACGACAAGGCTTGGAACATA
CTTACAGGCTGTCAATTTAGAAAATGAAGAACTTCCCAAAGTGTTCCTTGATTTCTTAAATGTGCGACACTTGCC
CTCTCTACCAAAGGCAGAAAGTTGTGGATCTTTTGATGAAACAGAGTCTGAAGAGTCAAGCAAAGTGTCCCACCA
GCCTGTGCTGCTGTTCCCTCAGGGATCCATATGTCTTGCTGCAGCCAGCGATTTTCCAAATGTGGTTATTGAAGG
AGTCCTCCATGGGATATTTTACCCTCATCTACAGCCCAGG**TAG**AAATCCTACATGGCTAAAAGAAGCAGAAGCAA
GTTTCGAAGTCACAGTCAAGGAAATCAATACCTACCAATTTAACCTAAACGCTATGATATATAACAGCTCTAGCT
AGTGGTAAAGTGCACAGTCCCAGCTTAATTCAGGGCAGGGACATTTCCATTAGAATGGTGCTCTTAAAAATAGAA
ACTGAACCGGGGCGGTGGTCAGGCTAAGGCCAAGTGTTTAAGAAGTAGAGTGTAGCTGCCAGCGTAGAAACCCAT
GAAAAGGAGGCCACAGGAGATTCTGGGAGCACTGGGTGTAGCAAACAAAGCCACTCTCTGCTTCAGTCGCACC
ATTTGCTAATTGAAAATCATATCCTGAATCATACTGAGACTGATCAACTTTGGTAGCTTTTTTGTTCAGATCTTA
TGACACACTACTCTTCTCACCGTGAGATTTTCTCAGCCAGTGATAGTACATTCTGAAATGCTGGCACCAGGAGAC
GGCCACAGACACACACTGCTAAATGTGAAGATGGAAC**TAA**CTGGAAATTAAATTATACTGACAATATTATGGCA
TTTTTAAGATCATGGCATTTTAATTTACATTAGAGTGGAGTTGCATCATACTCAGGGGTTAGCTTCCAAGGTCAG
TACATAGGTAAATGGGCTATTAGGATGATCCTTGAAAGCCCTTTAGAAGGGTGCCATGTTGGAAACCTGTACAT
CACAA**CA**AGTAGCTTTTCTCCTATGTTGGAAAAAAAGACTGTTTCTTTGTTTGAAGACCAAGTGAAAGTTGTTGG
TGTTTGTTTAGGGGCCATTTTGTTAAAAAAAGCACATAACTTTTAACACTAGAATCAGCCCGCAAGATGCT
TGCCCCGCTAGTGGCAGATGTGAAGTGAAGAGTGAAGCGCCACCCAGCGGATGGACAGCACCCACCTGGGT
TTACTCAAGGGTGTGCATTCAATTTAGGTGGGATCGCCACAGGATTTTCATGTTATTTTCTTACGGCTTCCTTTT
CACTGACCTCAATTTGTTGAGTTAATGTAAGTTAAATGTGTCTATGATATAACTCCACTGTACATCATCCTTTGAG
TAGTAAAGGATAAAAGCATATATACTACCTATATGTATGTGCTGTATGTGGGCATTTTATTGAGATCTAATTAAT
AGCTAGCCTATTTATGGTTATTCGTTTTAGTAAGTTCTGTGGGAGCAAGGTATTTAAATCAAACTAATACTA
CATCATGGTTTTTATTAGGATCTAAATATTCAGGTTTTAAGCCTGCTGCAAAC**TT**TTAAATATTATGATAGAT
TCTGTACTACATGTGGGAACAAGCAAGAACTAAATAATCAAATGTTGTCAACCAAAGTAATAGTTGGGTATTG
GAGATTTTTTTAAATGTTTTTATGTTATTAGCTATTTGGAGTTAAATAAAACAGAACAAAGGAAAAAAAAAAAA
AAAAAAAAAAAAA

2448/2825
FIGURE 2167

MEVYIPSFYEEEDLERGYTVFKIEVLMNGRKHFVEKRYSEFHALHKKLKKCIKTPEIPSKHVRNWVPKVLEQRR
QGLETYLQAVILENEELPKLFLDFLNVRHLPSLPKAESCGSFDETESEESSKLSHQPVLFLRDPYVLPASDFP
NVVIEGVLHGIFYPHLQPR

2449/2825
FIGURE 2168

GCGGCCGCGTCGACCGGCGCGGCTGGAGCGCAGCGCCGAAGGGACTGGCAGGGCTGAAGTGTGCGGGACAGCAAG
CCCCCGAATAGCCCCGGCTGCCACCTCGCAGGACCCAAGGCCACGCGCGCCGGGGCCAGCTGAGCCGCCTCATGA
AGCCGCCCCGCGGAGGACCTGTCGGACGCGCTGTGCGAGTTTGACGCGGTGCTGGCCGACTTCGCGTCGCCCTTCC
ACGAGCGCCACTTCCACTACGAGGAGCACCTGGAGCGCATGAAGCGGCGCAGCAGCGCCAGTGTGAGCGACAGCA
GCGGCTTCAGCGACTCGGAGAGTGCAGATTCACTTTATAGGAACAGCTTCAGCTTCAGTGATGAAAACTGAATT
CTCCAACAGACTCTACCCCAGCTCTTCTCTCTGCCACTGTCACTCCTCAGAAAGCTAAATTAGGAGACACAAAAG
AGCTAGAAGCCTTCATTGCTGATCTTGACAAAACCTTTAGCAAGTATGTGAAACAAGAAGTTCTGGGTCCTTTCAT
CATAAGGGAGAAGCTTCAGAAAGTTCCGAGGACCTGCTAAAATCAGCTACTAGAATCTGCTGCCAGAGGGGACAA
AGACGTGCACTCAACCTTCTACCAGGCCACTCTCAGGCTCACCTTAAAATCAGCCCTTGATCCCATTCTGCGCA
ATTTAGACAGTGAACTGACTTTGTTTACCTGCTTGACAGCATATTAGAACAGACGATCCATGCTAATATTGTATT
TTCTCTTAAAACATAGCTTTCCTGTAATTTAAAGTGCTTTTATGAAAATATTTGTAATTAATTATATATAGTTGG
AAATAGCAGTAAGCTTTCCTTATAATATATTTTTGTATACAAATAAAATTTGAACTGAACCTCGTGCC

2450/2825
FIGURE 2169

MKPPAEDLSDALCEFDVLA²⁴⁵⁰DFASPFHERHFHYEEHLERMKRRSSASVSDSSGFSDSESADSLYRNSFSFSDEKL
NSPTDSTPALLSATVTPQKAKLGD²⁸²⁵TKELEAFIADLDKTLASM

2451/2825
FIGURE 2170

AGAAGCAGTCAGCCCAGGGCTCTCGGATGCAGGGAGCCTGGGCCCCAAACAGCAGCTTCCGGAGTCGGAAGGAGCT
GAGGAAGAAGACAGACTGAAGGAGCTTGCGACTTTTCCGCCTCGGCAACCGGACCCAGCAGCAAGCAGGACGGGC
GGCGCTCTGCTACTGGTCCCGTTAAGCCAGAGTAGCCCAAGCCCTGAAGTCACTGCTCATCCGGAATGGAAATCC
CGCCGACCAACTACCCAGCCTCCAGGGCGGCCTTGGTGGCACAGAACTACATCAACTACCAGCAGGGGACCCCGC
ACAGGGTGTTTGAGGTGCAGAAGGTCAAACAAGCCAGCATGGAGGATATTCCAGGAAGAGGACATAAGTATCGCC
TTAAATTTGCTGTTGAAGAAATTATACAAAAACAAGTTAAGGTGAACTGCACAGCTGAAGTACTTTACCTTCAA
CGGGACAAGAACTGCACCAGAAGTCAACTTCACATTTGAAGGAGAACTGGAAAGAATCCAGATGAAGAAGACA
ACACATTTTATCAAAGACTTAAGTCCATGAAGGAACCGCTAGAAGCACAAAATATTCCAGACAATTTTGGAATG
TATCTCCAGAAATGACGCTCGTTCTACATTTAGCCTGGGTTGCCTGTGGTTATATAATATGGCAAAATTTCTACTG
AAGACACATGGTATAAAATGGTAAAAATTCAAAGTGTCAAGCAAGTGCAAAGAAATGATGACTTTATTGAATTAG
ACTACACCATTCTACTTCATAATATAGCATCTCAGGAGATTATCCCTGGCAAATGCAAGTTCTCTGGCATCCAC
AATACGGCACTAAAGTAAACATAATAGCCGTCTGCCAAAGGAAGTACAAGTGAAGTAAACAAAAACCTAACAC
TGGAAGTGTAACATGTCTATTGATGTGTATGCCAATTTCACTGGCATCTAGCTTATGAGGCCAAATAATCCCAA
AGTGTCACTTTATATAAATGTCTTGATTACAGTATAGAAGTTTATAGAGTCCATAATACAAAGTATCACTACATA
AAAATGTCTTTAAACAGTAATAGTGGTATGTATATCCAAAATAAAAAGCTTCAATTTAGCCAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAA

2452/2825
FIGURE 2171

MEIPPTNYPASRAALVAQNYINYQQGTPHRVFEVQKVKQASMEDIPGRGHKYRLKFAVEEIIQKQVKVNCTAEVL
YPSTGQETAPEVNFTFEGETGKNPDEEDNTFYQRLKSMKEPLEAQNIPDNFGNVSPENTLVHLAWVACGYIIWQ
NSTEDTWYKMKIQTVKQVQRNDDFIELDYTILLHNIASQEIIIPWQMQLWHPQYGTKVKHNSRLPKEVQLE

2453/2825
FIGURE 2172

GCTGGAGCCGGCGCGGAGGAGCGGGCGGCCGCGGCTGTGCCCTCTCCTACTCCTCACCGCGCGCGCGCGGGGAAC
CAGTAGCCGCGGCTGCTTCGGTTGCCGCGGTCCGGTGGTCGTT**ATGG**ATTCTCCATGGGACGAGTTGGCTCTGGCC
TTCTCCCGCACGTCCATGTTTCCCTTTTTTGACATCGCGCACTATCTAGTGTCA GTGATGGCGGTGAAACGTCAG
CCGGGAGCAGCTGCATTGGCATGGAAGAATCCTATTTC AAGCTGGTTTACTGCTATGCTCCACTGTTTTGGTGGA
GGAATTTTATCCTGTCTACTGCTTG CAGAGCCTCCATTGAAGTTTCTTGCAAACCACACTAACATATTACTGGCA
TCTTCAATCTGGTATATTACATTTTTTTGCCCGCATGACCTAGTTTCC CAGGGCTATTTCATATCTACCTGTTCAA
CTACTGGCTTCGGGAATGAAGGAAGTGACCAGA AACTTGGAAAATAGTAGGTGGAGTCACACATGCTAATAGCTAT
TACAAAAATGGCTGGATAGTCATGATAGCTATTGGATGGGCCCGAGGTGCAGGTGGTACCATTATAACGAATTTT
GAGAGGTTGGTAAAAGGAGATTGGAACCAGAAGGTGATGAATGGCTGAAGATGTCATACCCTGCCAAGGTAACC
CTGCTGGGGTCAGTTATCTTCACATTCCAGCACACCCAGCATCTGGCAATATCAAAGCATAATCTTATGTTCCCTT
TATACCATCTTTATTGTGGCCACAAAGATAACCATGATGACTACACAGACTTCTACTATGACATTTGCTCCTTTT
GAGGATACATTGAGTTGGATGCTATTTGGCTGGCAGCAGCCGTTTTTCATCATGTGAGAAGAAAAGTGAAGCAAAG
TCACCTTCCAATGGCGTTGGGTCATTGGCCTCAAAGCCGGTAGATGTTGCCTCAGATAATGTTAAAAAGAAACAT
ACTAAGAAGAATGAAT**TAA**ATTTACGTGATGAGCTCTACAAGGCCAAAAATTTTTTTCTTATCTACCTGTTATAT
TGTGCTAATTTTTCTATGTATGTGATGTGAAATGAAGACTATATATATGGAATGGAGGTGACAGAAAGAAAGAAA
TTCTTTGTTTGAGGGAGACTTCCCTTTCTGGATTGTATTTGTAGAGTGTTACGAGTGTATCATGTGATTATGCT
TTACCGGTATAAGAGATTCTGTTGTGATTATTTGAATAGTTTTATATTAATAAAAGAAGACAAAATTTTTTAAAT
GTTAGAAAAAGCAGATCTGTCAATTGCAAAGTAACAAAAATTTTAAGCTTTTAAAAATGTAGATTTTTCATATTTT
TAAAAATTTGAATCTATTTGAGCTTTAGTTCAGCAGAATTAAATTTTTACTTGACATTATCATTAAAAATTGCTAGG
TATGGAGAACAATTCCTATTTTATTTTGAACACTGAGAAGAGTAAACTTTTCCTAAACACTTTATATTATAAAT
GAAAAATAAATTGCTAGTTTATATTTTAGATATAAACATCATATTTTTTTATTAATACCTACATCAAAATGGAAAATA
TCTGAAATTTTTTTTCCATAGCAGGTATTTTCTACTAGAAGTAGTTTTACTACTTTTCATTTAGAACAGAGTATG
AGTCTTAATCTGAAGTCTTTTTTCATGCCCTTGTTTTAAAAAAACTACTTTTTTTGGCCTCAAAAAAATCAAGGGT
GTAATTTTTTAATAAATTGTTAATCCTATGTTTTGTAATTTTCATTTTAGGAGCTTGACTTATTTTTTTCTCTCTC
ATAAAAAACACATTTGTTTTAATTGTAGGAGAAAATTTTCTCAGCATTTTGCATGTTCTTTCTAATCTTTGTTGGTC
TGAATATATTGGTAGTAATTACTGTAATTATTCAACAAAAAGCATATCCGTTCAAAAATTTTCCACTATGTCTT
TTTTCTAGTGGCTACTGTTTTAGTTTTCTAGTTGAATATCTCTGACAAGCTTTTCGTATGGTTTTGTTATATCTTC
ATCTACATGTAATGTGTTATTAATTTTATTAAATGAAACTAATCACCTTC

2454/2825
FIGURE 2173

MDSPWDELALAFSRTSMFPFFDIAHYLVSVMAVKRQPGAAALAWKNPISWFTAMLHCFGGGILSCLLLAEPPLK
FLANHTNILLASSIWYITFFCPHDLVSQGYSYLPVQLLASGMKEVTRTWKIVGGVTHANSYYKNGWIVMIAIGWA
RGAGGTIIITNFERLVKGDWKPEGDEWLKMSYPKVTLLGSVIFTFQHTQHLAISKHNLMFLYTIFIVATKITMMT
TQTSTMTFAPFEDLSWMLFGWQQPFSSCEKKSEAKSPSNGVGSLSKPVVDVSDNVKKKHTKKNE

2455/2825
FIGURE 2174

AGGGGGCCGAGCGGCGGGCCGGGCGGGCCGGGCGAGGGCCGGGGCGTGGGCGGGCAGGAAGATGGCGAACGTGGG
GCTGCAGTTCCAGGCGAGCGCGGGGGACTCGGACCCACAGAGCCGGCCCCCTGCTGCTGCTCGGGCAGCTGCACCA
CCTGCACCCGCTGCCCTGGAGCCACGTCCGCGGGAAGCTGCAGCCCCGGGTACCCGAGGAGCTCTGGCAGGCTGC
CCTGAGCACGCTCAACCCCAACCCACGGACAGCTGTCCCTCTACCTGAACTACGCCACCGTGGCTGCCCTGCC
CTGCAGGGTGAGCCGGCACAACAGCCCCCTCGGCCGCCCACTTCATCACGCGGCTGGTGCAGGACCTGCCTGCCGCC
CGGAGCGCATCGCTGCATTGTG**ATGG**TCTGCGAGCAGCCGGAGGTCTTTGCTTCCGCCTGTGCCCTGGCCCCGGGC
CTTCCCGCTGTTACCCACCGCTCAGGTGCCTCTCGGCGCTTGGAGAAGAAGACGGTCACCGTGGAGTTTTTCCT
GGTGGGACAAGACAACGGGCGGTGGAGGTGTCCACATTGCAGTGCTTAGCGAATGCCACAGACGGCGTGC GGCT
AGCAGCCCGCATCGTGGACACACCCTGCAATGAGATGAACACCGACACCTTCCTCGAGGAGATTAACAAAGTTGG
AAAGGAGCTGGGGATCATCCCAACCATCATCCGGGATGAGGAACTGAAGACGAGAGGATTTGGAGGAATCTATGG
GGTTGGCAAAGCCGCCCTGCATCCCCAGCCCTGGCCGTCTCAGCCACACCCCAGATGGAGCCACGCAGACCAT
CGCCTGGGTGGGCAAAGGCATCGTCTATGACACTGGAGGCCCTCAGCATCAAAGGGAAGACTACCATGCCGGGGAT
GAAGCGAGACTGCGGGGGTGTGCGGCCGTCTGGGGGCCCTCAGAGCCGCAATCAAGCAGGGTTTTCAAAGACAA
CCTCCACGCTGTGTTCTGCTTGGCTGAGAACTCGGTGGGGCCCCAATGCGACAAGGCCAGATGACATCCACCTGCT
GTACTCAGGGAAGACGGTGGAAATCAACAACACGGATGCCGAGGGCAGGCTGGTGTGTCAGATGGCGTGTCTTA
TGCTTGCAAGGACCTGGGGGCCGACATCATCCTGGACATGGCCACCCTGACCGGGGCTCAGGGCATTGCCACAGG
GAAGTACCACGCCGCGGTGCTCACCAACAGCGCTGAGTGGGAGGCCGCCTGTGTGAAGGCGGGCAGGAAGTGTGG
GGACCTGGTGCACCCGCTGGTCTACTGCCCGAGCTGCACTTCAGCGAGTTCACCTCAGCTGTGGCGGACATGAA
GAACTCAGTGGCGGACCGAGACAACAGCCCCAGCTCCTGTGCTGGCCTCTTCATCGCCTCACACATCGGCTTCGA
CTGGCCCCGAGTCTGGGTCCACCTGGACATTGCTGCACCGGTGCATGCTGGTGAGCGAGCCACAGGCTTCGGTGT
GGCCCTCCTGCTGGCGCTCTTCGGCCGTGCCTCTGAGGACCCTCTGCTGAACCTGGTGTCCCCACTGGGCTGTGA
GGTGGATGTGAGGAGGGGGACCTGGGGAGGGACTCCAAGAGACGCAGGCTTGTG**TGAG**CCTCCTGCCTCGGCCC
TGACAAACGGGGATCTTTTACCTCACTTTGCACTGATTAATTTTAAGCAATTGAAAGATTGCCCTTCATATGGGT
TTTGGTTTGTCTTTCTGGTCGTACGCTGGTGGTGGAAACAGCTGAAGTTTTAGGAGACAGCTTAGGGTTTGGTG
CGGGCCACGGGGAGGGGACCGGGAAGCGCTGGGGCTTGTCTTCTGTTTGTACTTACAGGACTGAGACATCTTCTG
TAAACTGCTACCCCTGGGGCCTTCTGCACCCCGGGGTGAGGCCTCCTGCCTGCCTGGTGCCTGTCCCAGCCCCA
GGTCTGTGTCAGGGCACCTGCGTGGCTGACAGCCAGGCTCTTACTCCAGCCGGGGCTGCCAGCGCATCCAGCCAG
CCCAGCCCTGTGAAAGATGGAGCTGACTTGCTGCAGGGGACCTGATTTATAGGGCAAGAGAAGTCACACTCCGCGC
CTCTCAGAATTCATTGAGGTTCAATTAAATACAGTCACACCGCCCCCTCAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAA

2456/2825
FIGURE 2175

MVCEQPEVFASACALARAFPLFTHRSGASRRLEKKTVTVEFFLVGQDNGPVEVSTLQCLANATDGVRLAARIVDT
PCNEMNTDTFLEEINKVGKELGIIPTIIRDEELKTRGFGGIYGVGKAALHPPALAVLSHTPDGATQTIAWVGKGI
VYDTGGLSIKGGTTMPGMKRDCGAAAVLGAFRAAIKQGFKDNLHAVFCLAENSVGPNATRPDDIHLLYSGKTVE
INNTDAEGRLVLADGVSYACKDLGADIILDMATLTGAQGIATGKYHAAVLTNSAEWEAACVKAGRKCGDLVHPLV
YCPELHFSEFTSAVADMKNSVADRDNSPSSCAGLFIASHIGFDWPGVWVHLDIAAPVHAGERATGFGVALLLALF
GRASEDPLLNLVSPPLGCEVDVEEGDLGRDSKRRRLV

2457/2825
FIGURE 2176

TACTTGCGTCATGGACAGCTCATTGTAAATGATGGCATTAAATTTATTGGGTGTGTTAGAAGAAGCAAGATTTTTT
GGTATTGACTCATTGATTGAACACCTAGAAGTGGCAATAAAGAATTCTCAACCACCGGAGGATCATTACCAATA
TCCCGAAAGGAATTTGTCCGATTTTTGCTAGCAACTCCAACCAAGTCAGAACTGCGATGCCAGGGTTTGAACCTC
AGTGGTGCTGATCTTCTCGTTTGGACCTTCGATACATTAACCTCAAAATGGCCAATTTAAGCCGCTGTAATCTT
GCACATGCAAATCTTGTGCTGCAAATCTTGAACGAGCTGATCTCTCTGGATCAGTGCTTGACTGTGCGAATCTC
CAGGGAGTCAAGATGCTCTGTTCTAATGCAGAAGGAGCATCCCTGAAACTGTGTAATTTTGAGGATCCCTTCTGGT
CTTAAAGCCAATTTAGAAGGTGCTAATCTGAAAGGTGTGGATATGGAAGGAAGTCAGATGACAGGAATTAACCTG
AGAGTGGCTACCTTAAAAAATGCAAAGTTGAAGAACTGTAACCTCAGAGGAGCAACTCTGGCAGGAACCTGATTTA
GAGAATTGTGATCTGTCTGGGTGTGATCTTCAAGAAAGCCAACCTGAGAGGGTCCAACGTGAAGGGAGCTATATTT
GAAGAGATGCTGACACCACTACACATGTCACAAAGTGTGAGATGAGAAATTTAGGGGCTGGAGGAAGATGTAAAA
GATGAAAAATGTTTTCTTATCACTTTTTCTTCTCCACCCACTCAGTTGTCTAGAAGAAATAACACTGTAAGGAAA
TTTAAAAAATAACATTTAGAGGATTATGCTTGTTTTGAGTGGTGCATAAGGGAAAAAAGTACTTTTTTTCCAT
ATTCTGATTTTTTAACAGAAAAGCACTCATTTAATAGATGTAGGGAACTAGATATTGCTGCCTTTTGAATGGGGT
AGGGGGGTTTACCTGGTTTTATGACCAGGCATAGTATCTATTATATTTGCTTTTAAATAGGCATGATGTGGAAT
ACCATCTTGGTTTGAGATGCATTTGAGGATTTTAATTTATGGAAGCACAACATATGCAATTATATTTATTGAAT
TCCTAGATGCAGTATGGATATTTAAATTGTTAAACTTTATGAAAAGTGGAAAAGGTTGTTTCAGGTTTATAAAT
AGCTTTAGTGATGCCTCCCCTCTTTAAATACCTGTCACACCGTATGAATATGGTGAGATCAGACTCCCTAAGACT
CTTTTCAGGTTTCATTTTTATAATGTTTACTTTTTAGGACAGAACAGTAGCTAAATTAAAGTAATATCCAGTTCTT
ACTGATTGAGACAGAGTGGAAAGAAAGACATCATTGTACATCACTGTCATTCCAAAGGTACAGTGTAACCTCTGGA
TGGAGGAATAACTTACCTATCACTACAACACTTACAAATGAGAATTTCTCAGAATTTTATTCTAGGCAAGTTCCA
CTCAACACCAGATCAAGCAATTCTATCTATTTACACTATTAGCCTAGTTTTCTCATACAGTCATCACAAGCATAG
GAAGATACTTCAAAACCAAAAAAACAAGGTGCATCATTAATATTCAATTAATTCAAATGCCAAATAGTTTACAT
AGGGCCAGCTTAGAAATAGATACTAAATCCAGAGCTACTGCAATCAAAGCTTATATGAGTGAATATGGTAGAGTT
GCCTGCTAAAAGGCAATGTAATATAATTGCAGCTAGAACCCTACAGTGGGGAATGAGGAATTTTAAACACACATT
TGATTGCAGCCACCAAAAAAATAGACGTAAAAATAAAGGCATTTGGCTGGTCCAAGATGTAATTATCAATCAGT
CAGCACCTGTGATTCTTTTACTTATTTTTTTGTGGTTTTTTTTTTTAAACAAATTTTAGCCCAATTTTCTTGAGT
CATTCTCTCTCTGCAGCAGCAGAGGAAGGGCCTGTACCTCCCTACCAATGACTTGGTGTCTTATTTTTCTACCCC
AAGAGCAGGGATATTAGCTGTGTCCAAATGGGTTCTGAATTCTACAGACTCATCAACATGAGGCAAGGAATCATT
GAAAACCACCTGTGTCTCCTTTGGGAGAATGACATATCTTTAGTATTTACGTAGCTTATTCTTCTATATCTACAT
ATGCAAAGCTTTTCTTAACAGTAAAGGGTACATATGCATAGTGGGAGGAGATCAGACCTTTACAAGTGAAGGAAA
GCAACTTCAGAAATGAATTATTTTCTTTGCTTTATTATTTTTTACCAAGACAGAGAAGTATTGTATTGAGAGATAA
TCTATTTTTCATAATCAATATGTGCCTAAATTATATTTTAAATCATTTCACTCTGTACTATATTTTCAGGAATTACA
GAATGTGGTATTTCATTTAAAGGTACCTCTGTAGAAATAACCTAAAAGTGCAGAAGGATCTGAAAGATCTAA
ACATGGTGTGCTTAGAAAGTGCAGATTTTAGATCTAATGTATACTGCATTAATAAATGATATAAAGTGTGTGTTG
AAAAAAAAAAAAAAAAAAAAA

2458/2825
FIGURE 2177

MANLSRCNLAHANLCCANLERADLSGSVLD CANLQGVKMLCSNAEGASLKLCNFEDPSGLKANLEGANLKGVDME
GSQMTGINLRVATLKN AKLKNCNLRGATLAGTDLENC DLSGCDLQEANLRGSNVKG AIFEEMLTPLHMSQSVR

2459/2825
FIGURE 2178

GGCACGAGGCCGAGCCTAGTGCCTCCCACGCCCGGGCGGCCGCGAGCCGGGGTCCGCGAGGGCGGAGTGGGGCGCG
GCAGCCAGGAACCCGACTACGAATCCCAGGGTGCGGGCGGGCGGAGCGAGGAGGGACGCTGGGCCTGCCCCGGTGC
GCACGGGGGCGGGGACCGGCAAGGCGGGACCAATTTCCCGGCATAGGCTCCGGTGCCCCCTGCCCCGGCTCCCGCCGG
GAAGTTCTAGGCCGCCGCACAGAAAGCCCTGCCCTCCACGCCGGGTCTCTGGAGCGCCCTGGGTTGCCCGGCCGG
TCCCTGCCGCTGACTTGTTGACACTGCGAGCACTCAGTCCCTCCCGCGCGCCTCCTCCCCGCCCCGCCCGCCGCT
CCTCCTCCCTGTAAACATGCCATAGTGCGCCTGCGACCACACGGCCGGGGCGCTAGCGTTTCGCCTTCAGCCACCAT
GGGGAATGGGATGAACAAGATCCTGCCCCGCCCTGTACATCGGCAACTTCAAAGATGCCAGAGACGCGGAACAATT
GAGCAAGAACAAGGTGACACATATTCTGTCTGTCCATGATAGTGCCAGGCCTATGTTGGAGGGAGTTAAATACCT
GTGCATCCCAGCAGCGGATTACCATCTCAAAACCTGACAAGACATTTCAAAGAAAGTATTAAATTCATTACGA
GTGCCGGCTCCGCGGTGAGAGCTGCCTTGTAACACTGCCTGGCCGGGGTCTCCAGGAGCGTGACACTGGTGATCGC
ATACATCATGACCGTCACTGACTTTGGCTGGGAGGATGCCCTGCACACCGTGCGTGCTGGGAGATCCTGTGCCAA
CCCCAACGTGGGCTTCCAGAGACAGCTCCAGGAGTTTGAGAAGCATGAGGTCCATCAGTATCGGCAGTGGCTGAA
GGAAGAATATGGAGAGAGCCCTTTGCAGGATGCAGAAGAAGCCAAAAACATTCTGGCCGCTCCAGGAATTCTGAA
GTTCTGGGCCTTTCTCAGAAGACTGTAATGTACCTGAAGTTTCTGAAATATTGCAAACCCACAGAGTTTAGGCTG
GTGCTGCCAAAAAGAAAAGCAACATAGAGTTTAAGTATCCAGTAGTGATTTGTAAACTTGTTTTTCATTTGAAGC
TGAATATATACGTAGTCATGTTTATGTTGAGAACTAAGGATATTCTTTAGCAAGAGAAAAATATTTCCCTTATC
CCCACTGCTGTGGAGGTTTCTGTACCTCGCTTGGATGCCTGTAAGGATCCCGGGAGCCTTGCCGCACTGCCTTGT
GGGTGGCTTGGCGCTCGTGATTGCTTCCTGTGAACGCCTCCCAAGGACGAGCCCAGTGATGTTGTGTGGCGTGAA
CTCTGCCCCGTGTGTTCTCAAATTCCCCAGCTTGGGAAATAGCCCTTGGTGTGGGTTTTATCTCTGGTTTGTGTTT
TCCGTGGTGGAATTGACCGAAAGCTCTATGTTTTCGTTAATAAAGGGCAACTTAGCCAAGTTTAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAA

2460/2825
FIGURE 2179

MGNGMNKILPGLYIGNFKDARDAEQLSKNKVTHILSVHDSARPMLEGVKYLCIPAADSPSQNLTRHFKESIKFIH
ECRLRGESCLVHCLAGVSRSVTLVIAYIMTVTDFGWEDALHTVRAGRSCANPNVGFQRQLQEFKHEVHQYRQWL
KEEYGESPLQDAEEAKNILAAPGILKFWAFLRRL

2461/2825
FIGURE 2180

CCCAGCAGGCAGTGCAGCCTAGAGACGCTGACAAAGGAGCGGAGGAGCAGTCGCAGCTGCTTTCCGAGGAAGCCG
GTGTTGCCGAGATTGCCAAAATGCTTTGGAGTTTTTAACTGAATCTAAGAAAAGTCCAAAATAGATTTGAGACTG
TAAAAACAGAACTGCAGCAAGGGGGATTCAAGTCCAATGCATCAACAAAAAAGACAACCAGAGTTAGTGGAAGG
AAATCTTCCCTGTTTTTCGTGTTCCCCACGGAGCTCATATTTTATGCAGATGATCAGTCAACACATAAGCAAGTGTT
GACACTGTACAAATCCCTATGAGTTTGCCTTAAAGTTCAAAGTTTTGTGTACTACTCCAAATAAGTATGTTGTCTG
TGATGCTGCAGGTGCAGTAAAGCCTCAGTGTTGTGTGGATATTGTGATTTCGTATCGAGATGTTTCGATCCTGTCA
CTATGGTGTAATAGACAAATTCCGTCTCCAAGTTTTCCGAGCAAAGCCAAAGGAAGGCTTTGGGAAGAAAAGAGGT
TGTTGCTACTCTTCTCCCATCAGCAAAAGAACAACAAAAGGAAGAAGAGGAAAAAAGATTAAAGGAACATTTAAC
TGAAAGTTTATTTTTTGAGCAGTCGTTTCAACCAGAAAACAGAGCTGTATCCTCAGGACCTAGTTTACTAACTGT
CTTCCTGGGAGTGGTGTGCATTGCAGCCCTGATGCTGCCTACACTGGGGGATGTGGAATCGCTGGTGCCTCTCTA
CCTCCACTTAAGTGTGAATCAAAAATTAGTGGCTGCTTATATCTTAGGTCTTATCACAATGGCCATACTTAGAAC
ATGAAGCAAGGATTTCAATTGACTTCTGAAGTAAATCTGTCTTGAAAATATGAATGTGGACTGCCTTTTATCTCTA
TTTCACTCCATTAAACATGCAACAACTATTGAATGATTTCAAATAATTGCAAATGTATAATATATATTTTAAATT
ATAATTTAATTTGAAGGACTGCAGAACATTATTTTACAGACAGCAAGGATGCTTCTGAGTGACACCTAGGAAATT
ATTTGAAGAAATTTCTTTTATATCTATACCTGTTGTGTAAGAACTTTTAAACATTTGTTATTTTCTCACCTTTT
TTTCTAATTCACTTTGATTGCTAGGGGTCTATGTATGCTTCGAAGTTACAGGACTAAAAGAGCAAACTGACCGGCC
TAAAACTAAAATGACATTTATCCCTAGCTACAAACATCAGCGTTATTATGTTAATTATACCTTGCCCTCTATCA
TTATAAATGGTTGCCATGGTGTCTTAAAAATAAGTGTTTTACCATTAATGTGTAGAGGGCAAACAAAGCATAAA
GTACTAAGGGATCATGCTTATCCTAGGGTCTCACAGAAGAGAGGACATATTTAATTAATCTTGTGAATTACAGAA
CAGGTTGTGGTCCAGACACCAAGAATCATAGGGGTTTTTTTTTAAAAAACCTAATAGAAGTAGGGTGACCTCTCT
CTTTGGTCTAAGAGTTCTAAAGGAAGGTAGGCATCTGTTTAAATTAGTTGGTTACCCTGGCTTTACCTCTGGTTA
ATGCTTTGTGTTAATAGGAAGGAAAAATCACTTTATCTTTTCTTCCAAGCCCCTCCCTGCCTGACTTACCCAGAC
TGGGATTACCAGATAACCAGGTGATTTATGTGGAGATGATTTTTTACCTTTAAACTCTAAGCCAAGTGAAGAAAC
TCTTGATAGCTATGTCTATTTTATATCAGTCACTGAGACTTTTTTTTTAAGTTTTTATTTATTATTAAGACAACTT
TGCCAAAAAAGTCCCCTAAGCACAACCTATTTACATTTCTTTATAGCCTCTTCTGATCTCTAACACATATGCAGTT
TTAACTGTTATTTTCATAGTAACTGATCTTTTGTCTAAGGATTTTTTACCTGAAAGCACAATGTATTGAGTCTCTT
GAAAATCATCTTTTCAGATCTTTTTACAGAATGAACCTTATGCACTGCTACTGTAGTATTCTCAAGGAATATATGTA
AACACAAATGTATGCCTGAGGTTGGTTTTTGCAGAAAACAGTCTCTGCTTCTAAAAACTTCTATGTCTAGTCTTC
CATAGGAAATCCTCACTGTTTAAACATGTGAGGAGCCTAAGTCATTAAACGGATCATGTCTGTACATTGTGTAAT
GAATGAAAAGCACATAAATGTAATCTACTTTGAACCTTTGTAAAAATGATGTGTGGAGGCTATTCTTGTCTTCTCCA
TCTCAAGTCCTGTGTGTGCACGTGTGTGCAAGTGCACATGTGTGTGTGTAATAACACATTGTAAAGAACAGAAAT
TACTTTAAAAAATAAACAGAAATGGAGACCTGA

2462/2825
FIGURE 2181

MHQQKRQPELVEGNLPVFVFPTLIFYADDQSTHKQVLTLYNPYEFALKFKVLCCTPNKYVVVDAAGAVKPQCCV
DIVIRHRDVRSCHYGVIDKFRLQVSEQSQRKALGRKEVVATLLPSAKEQQKEEEEKRLKEHLTESLFFEQSFQPE
NRAVSSGPSLLTVFLGVVCIAALMLPTLGDVESLVPLYLHLSVNQKLVAAYILGLITMAILRT

2463/2825
FIGURE 2182

GACTTTTCCCACACACTGGATTGTGAGGCTCTTCTTAAAAGTATAATGGCATCTTGTGAATCCTATAAGCAGTCT
TTATGTCTCTTAACATTCACACCTACTTTTTTAAAAACAAATATTATTACTATTTTTATTATTGTTTGTCTTTAT
AAATTTTCTTAAAGATTAAGAAAATTTAAGACCCCATTGAGTTACTGTAAATGCAATTCAACTTTGAGTTATCTTT
TAAATATGTCTTGTATAGTTCATATTCATGGCTGAAACTTGACCACACTATTGCTGATTGTATGGTTTTACCTG
GACACCGTGTAGAATGCTTGATTACTTGTACTCTTCTTATGCTAATATGCTCTGGGCTGGAGAAATGAAATCCTC
AAGCCATCAGGATTTGCTATTTAAGTGGCTTGACAACTGGGCCACCAAAGAACTTGAACCTTCACCTTTTAGGATT
TGAGCTGTTCTGGAACACATTGCTGCACTTTGGAAAGTCAAAATCAAGTGCCAGTGGCGCCCTTTCCATAGAGAA
TTTGCCAGCTTTGCTTTAAAAGATGTCTTGTTTTTTATATACACATAATCAATAGGTCCAATCTGCTCTCAAGG
CCTTGGTCCTGGTGGGATTCTTTCACCAATTACTTTAATTAAAAATGGCTGCAACTGTAAGAACCCTTGCTCTGAT
ATATTTGCAACTATGCTCCCATTTACAAATGTACCTTCTAATGCTCAGTTGCCAGGTTCCAATGCAAAGGTGGCG
TGGACTCCCTTTGTGTGGGTGGGGTTTGTGGGTAGTGGTGAAGGACCGATATCAGAAAAATGCCTTCAAGTGTAC
TAATTTATTAATAAACATTAGGTGTTTGTAAAAA

2464/2825
FIGURE 2183

MQFNFELSFKYVLYSSYSWLKLDHTIADCMVFTWTPCRMLDYLYSSYANMLWAGEMKSSSHQDLLFKWLDNWATK
ELELHLLGFELFWNTLLHFGKSKSSASGALSIENLPSFALKDVLFFIYT

2465/2825
FIGURE 2184

AGATCCAGCAGGTGCGCGAAACCGCGGGCGCGCCGCCCTCCGCCGTTATATGAGGCCCCGCTCCGGCCCCACGCGG
AACCCGCGGCTCCGAGCCTTCGCCGGCGTCCCGACCCGAGGCCGACCCGAGGCCAGTCCCGCCGCTGCGCAGCC
GAAGCCAGTGCGGGGCCTGAGAGGGACGCGCGCCCCGGGGCCCCCGCCGCGGGCACCATGGGCGCTGCCCACTCC
GCGTCTGAGGAGGTGCGGGAGCTCGAGGGCAAGACCGGCTTCTCATCGGATCAGATCGAGCAGCTCCATCGGAGA
TTTAAGCAGCTGAGTGGAGATCAGCCTACCATTCGCAAGGAGAACTTCAACAATGTCCCGGACCTGGAGCTCAAC
CCCATCCGATCCAAAATTGTTTCGTGCCTTCTTCGACAACAGGAACCTGCGCAAGGGACCCAGTGGCCTGGCTGAT
GAGATCAATTTGAGGACTTCCTGACCATCATGTCTACTTCCGGCCCATCGACACCACCATGGACGAGGAACAG
GTGGAGCTGTCCCGGAAGGAGAAGCTGAGATTTCTGTTCCACATGTACGACTCGGACAGCGACGGCCGCATCACT
CTGGAAGAATATCGAAATGTAAAGTGGTCGAGGAGCTGCTGTGCGGAAACCCTCACATCTAGAAGGAGTCCGCTC
GCTCCATCGCCGACGGGGCCATGATGGAGGCGGCCAGCGTGTGCATGGGGCAGATGGAGCCTGATCAGGTGTACG
AGGGGATCACCTTCGAGGACTTCCTGAAGATCTGGCAGGGGATCGACATTGAGACCAAGATGCACGTCCGCTTCC
TTAACATGGAAACCATGGCCCTCTGCCACTGACCCACCGCCACCTCCGCGGAGAGACTGCACTTTGCAATGGGGC
CGCTCCCCGCGTAGCTGGAGCAGCCCAGGCCCGGGCGGACAGCCTCTTCCTGCAGCGCCGGTACATAGCCAAGGC
TCGTCTGCGCACCTTGTGTCTTGTAGGGTATGGTATGTGGGACTTCGCTGTTTTTATCTCCAATAAAAAAAAAA
AAAAAGGTTTGTAAATTAATAAAAAAAAAAAAAAAAAAGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

2466/2825
FIGURE 2185

MRPRSGPTRNPRLRAFAGVPTRGRTRGQSRRCAAEASAGPERDARPGAPAAGTMGAAHSASEEVRELEGKTGFSS
DQIEQLHRRFKQLSGDQPTIRKENFNNVPDLELNPIRSKIVRAFFDNRNLRKGPSGLADEINFEDFLTIMSYFRP
IDTTMDEEQVELSRKEKLRFLFMYDSDSDGRITL E EYRNVKWSRSCCRETLT SRRSPLAPSP TGP

2467/2825
FIGURE 2186

AAACCCAAAAGCGGCCGCCGTAGGCGAAGGTGAAG**ATGG**CTGCCTCTGCCTTTGCTGGTGCAGTGAGAGCAGCTTC
AGGAATCCTACGGCCCCCTGAATATTTTGGCATCTTCAACCTACCGCAACTGTGTCAAGAATGCCTCTCTTATTTT
TGCATTGTCCACTGGACGTTTTAGTCATATTTCAGACACCAGTTGTTTCCTCCACTCCCAGACTTACCACATCTGA
GAGAAACCTGACATGTGGGCATACCTCAGTGATCCTTAATAGAATGGCCCCCGTGCTTCCAAGTGTCTCTGAAGCT
GCCAGTCAGATCTCTAACATACTTCAGTGCAAGAAAAGGCAAGAGAAAGACCGTGAAAGCTGTTCATCGATAGGTT
TCTTCGACTTCATTGTGGCCTTTGGG**TGAGG**GAGAAAGGCTGGCTATAAGAAAAAATTATGGAAAAAGACACCTGC
AAGGAAGAAGCGATTGAGGGAATTTGTATTCTGCAATAAAACCCAGAGTAAACTCTTAGATAAAATGACGACGTC
CTTCTGGAAGAGGCGAAACTGGTACGTTGATGATCCTTATCAGAAAGTATCATGATCGAACAAACCTGAAAGTATA
GATCAGAAGTTTCACTTGTTTCTCAGTTATTGGATATGTATCTTTGTGTACATATCTTTGCAAAAATGGATAAGT
ACAAAACCTTGATGTAAATTGTACCAATGAATACGTAAACATACAGTGACAACATTAAACTTAGAAAAGTTTAA
ACTTAATGGATCAGACTTTGCCAGATTTGGTTAGGGAAACAGAAATTTAGAATGGTGCATTATTTTTTAACAAATG
GTATTGGCTTAACTAGTTGTTTTCAGTTATGCTCTTTTAGTTGCAAGGAATCTCAAGTGGGACAAACATAAAAAAG
CTCAAAAGCTACAAGTTAGCTCAAGCAATGTGACATTATTTCAAGGATATGTGCCAGGGAATTCAGGAACCACCT
CACCAACCCCATCTCCCACTCAGAAATCACCTCCCAGCCTCAGGAAGAGTAGAAATTGGGTGGTGCTCCTCAGCA
GGGGAAGGTGGATGTTTAGGCTTGGGCTCTGCATGCATGTGACTTGCTTCTTTTGCATTGTTAACTCCATTCTC
TCTATTACCAACTTCTCTACACAGCTTTTGCATACTTACAGTTTCTGTTCTTTGTAAATAACTTTAACTTGCAC
CTTTGAGGTTCTTTTCTACATGATGACCTTCAGCTCCTGCTGCTAGTCTCCAATTGCCAAGGGAATTTAACTGGG
CCAGACTACCTTTTTATACTAGGTCTGGTTGGGTCAATTGTCTAGAGTAGGGATTGGCTGTCTTAAAGTCAGGAGC
CCGCTTTGTATTAGCAGGTTTGCATGCAGCAAAAAAACAGTTATGTGAGCAGTTTCACTTGGAGGTTTACATGGG
GTGGCAGCACACTTAACATCTAACACACCAGGTTTCAATTGTGTTTATAACACTTGTCAATTTACTGTAAACAACATTT
TTTCATAGGAGAGTAAATAGCCCTTCAGCATGCTCATTTCATGAAACAGAAGAGGCTGTACAAGTGAAGACAAGGG
CTTTTTATGCAAGTTTTGAAAGATAGGTATTTATTTTTTCTAGAGACAGGAGTTTTGCTCTGTTGCCAGGCTGG
AGTGCAGTGGTGCAATCATAGCTCATTGAAGCCTCGCACTCCTGGGCTCAAGTGGTCTCTGCTCAGCTTACT
GAGTAAGGATATGTATTTCTTAAAGTTAGTTTATCCACTTCAGATTTCAIGTTTTCAATTTGTAAAGGATAAACTT
TTCCACAAAATTTTCAACAATCATTGTAGAACTAAGGGGGAGAAAGTAATCTCAGTTGTTTTAGAAACGAAAA
GTTAAGCATTGTTTACTTGAAGTGGGCAGGGAAGCAGCACTGAGTAAAGTTCAATTGAGTGGTTACAGTCTAGGG
CAGTGGTTCCCAACTCTCCGATCAGAATCATCTGGGAAGCATTTCAAACAGCAAAGTACTTTGAAAACCATTTAT
TAAATAGAATTATGCATGAATTACTGTTTCAGATCCTTTAATGTGGTAGTTGGTAATAATAAGATGAAATTCCTC
TGTGTGTGTTTATTAAGGAGAAAGGATAACAATAGAATGTTCTAAAACCAGAAGTCCAAGTGCCTGTCTACTT
ATGGGACCAATAAATAAAGAACAGACATTTGATTTGAGGTGAGGTAAAAGCCTGAAACATGGAATGGCATTCTGT
TTTGATGGATTTTCATTTCTTCGCACCTCTGAGACGGCAAAGCCAACCACTTAGAAGCCTTCCACATCTTTGTCA
CCTGCCTGGCTCCTGCTCTCTGATGTACCTCTGGGTAGTGAGATGGAAATGGTGCCTGCAGAAGTTGGGGAGAAG
GATACTTTTGCACAGCCTCCATGATGTCTTTATTGCAAAATATGGATGACAAGGGTCTCTGTTACAGGGGCCTCAG
AGCACCTTCGTTTCTCTCTAGACCAGGGACAGGTGTAGAGATAAGGACTGGCAACCAGAGCCTCAGCATCCAAA
GATGGACTGAAGTGGGATGGCTGACAGGCACATAACTTACGGGAAAGGGAATTTATACATACGATTTTTGTTTT
GTGGGTAGGAGGGCTTATCATCAACACTGATTTTATAATCTGACAATAAATGTCTTTCATTAAAGAGTTTACCTA
AATGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

2468/2825
FIGURE 2187

MAASAFAGAVRAASGILRPLNILASSTYRNCVKNASLISALSTGRFSHIQTPVVSSTPRLTTSE
RNLTCGHTSVI
LNRMAPVLPVSLKLPVRSLTYFSARKGKRKTVKAVIDRFLRLHCGLG

2469/2825
FIGURE 2188

TAGTTATTAAAGTTCCTATGCAGCTCCGCCTCCGTCCGGCCTCATTTCCTCAAAAAATCCCTGCTTTCCCCGCTC
GCCACGCCCTCCTGCTACCCGGCTTTAAAGCTAGTGAGGCACAGCCTGCGGGGAACGTAGCTAGCTGCAAGCAGA
GGCCGGCATGACCACCGAGCAGCGACGCAGCCTGCAAGCCTTCCAGGATTATATCCGGAAGACCCTGGACCCTAC
CTACATCCTGAGCTACATGGCCCCCTGGTTTAGGGAGGAAGAGGTGCAGTATATTAGGCTGAGAAAAACAACAA
GGGCCCCAATGGAGGCTGCCACACTTTTTCTCAAGTTCCTGTTGGAGCTCCAGGAGGAAGGCTGGTTCCGTGGCTT
TTTGGATGCCCTAGACCATGCAGGTTATTCTGGACTTTATGAAGCCATTGAAAGTTGGGATTTCAAAAAAATTGA
AAAGTTGGAGGAGTATAGATTACTTTTAAACGTTTACAACCAGAATTTAAAACCAGAATTATCCCAACCGATAT
CATTTCTGATCTGTCTGAATGTTAATTAATCAGGAATGTGAAGAAATTCTACAGATTTGCTCTACTAAGGGGAT
GATGGCAGGTGCAGAGAAATTGGTGAATGCCTTCTCAGATCAGACAAGGAAAACCTGGCCCAAACTTTGAAACT
TGCTTTGGAGAAAGAAAGGAACAAGTTCAGTGAAGTGTGGATTGTAGAGAAAGGTATAAAAGATGTTGAAACAGA
AGATCTTGAGGATAAGATGGAACTTCTGACATACAGATTTTCTACCAAGAAGATCCAGAATGCCAGAATCTTAG
TGAGAATTCATGTCCACCTTCAGAAGTGTCTGATACAAACTTGTACAGCCATTTAAACCAAGAAATTACCAATT
AGAGCTTGCTTTGCCTGCTATGAAAGGAAAAACACAATAATATGTGCTCCTACAGGTTGTGAAAAACCTTTGT
TTCCTGCTTATATGTGAACATCATCTTAAAAAATTCCCACAAGGACAAAAGGGGAAAGTTGTCTTTTTTGCAGAA
TCAGATCCCAGTGTATGAACAGCAGAAATCTGTATTCTCAAAATACTTTGAAAGACATGGGTATAGAGTTACAGG
CATTTCTGGAGCAACAGCTGAGAATGTCCAGTGGAAACAGATTGTTGAGAACAATGACATCATCATTTTAACTCC
ACAGATTCTTGTGAACAACCTTAAAAAGGGAACGATTCCATCACTATCCATCTTTACTTTGATGATATTTGATGA
ATGCCACAACACTAGTAAACAACACCCGTACAATATGATCATGTTTAATTATCTAGATCAGAACTTGAGGGATC
TTCAGGCCCACTGCCCCAGGTCATTGGGCTGACTGCCTCGGTTGGTGTGGGGATGCCAAAAACACAGATGAAGC
CTTGGAATTATATCTGCAAGCTGTGTGCTTCTCTTGATGCGTCAGTGATAGCAACAGTCAAACACAATCTGGAGGA
ACTGGAGCAAGTTGTTTATAAGCCCCAGAAGTTTTTCAGGAAAGTGGAAATCACGGATTAGCGACAAATTTAAATA
CATCATAGCTCAGCTGATGAGGGACACAGAGAGTCTGGCAAAGAGAATCTGCAAAGACCTCGAAAACTTATCTCA
AATTCAAAATAGGGAATTTGGAACACAGAAATATGAACAATGGATTGTTACAGTTCAGAAAGCATGCATGGTGT
CCAGATGCCAGACAAAGATGAAGAGAGCAGGATTTGTAAAGCCCTGTTTTTATACACTTCACATTTGCGGAAATA
TAATGATGCCCTCATTATCAGTGAGCATGCACGAATGAAAGATGCTCTGGATTACTTGAAAGACTTCTTCAGCAA
TGTCCGAGCAGCAGGATTGCAAGAGATTGAGCAAGATCTTACTCAGAGATTTGAAGAAAAGCTGCAGGAACTAGA
AAGTGTTTCCAGGGATCCCAGCAATGAGAATCCTAACTTGAAGACCTCTGCTTCATCTTACAAGAAGAGTACCA
CTTAAACCCAGAGACAATAACAATTCTCTTTGTGAAAACCAGAGCACTTGTGGACGCTTTAAAAAATTGGATTGA
AGGAAATCCTAACTCAGTTTTCTAAACCTGGCATATTGACTGGACGTGGCAAACAAATCAGAACACAGGAAT
GACCTTCCCGGCACAGAAGTGTATATTGGATGCATTCAAAGCCAGTGGAGATCACAATATTCTGATTGCCACCTC
AGTTGCTGATGAAGGCATTGACATTGCACAGTGCAATCTTGTATCCTTTATGAGTATGTGGGCAATGTCATCAA
AATGATCCAAACCAGAGGCAGAGGAAGAGCAAGAGGTAGCAAGTGCTTCCTTCTGACTAGTAATGCTGGTGTAA
TGAAAAAGAACAAATAAACATGTACAAAGAAAAAATGATGAATGACTCTATTTTACGCCTTCAGACATGGGACGA
AGCAGTATTTAGGGAAAAGATTCTGCATATACAGACTCATGAAAAATTCATCAGAGATAGTCAAGAAAAACCAA
ACCTGTCCCTGATAAGGAAAATAAAAACTGCTCTGCAGAAAGTGCAAAGCCTTGGCATGTTACACAGCTGACGT
AAGAGTGATAGAGGAATGCCATTACACTGTGCTTGGAGATGCTTTTAAGGAATGCTTTGTGAGTAGACCACATCC
CAAGCCAAAGCAGTTTTCAAGTTTTGAAAAAGAGCAAAGATATTCTGTGCCCGACAGAACTGCAGCCATGACTG
GGGAATCCATGTGAAGTACAAGACATTTGAGATTCCAGTTATAAAAAATTGAAAGTTTTGTGGTGGAGGATATTGC
AACTGGAGTTCAGACACTGTACTCGAAGTGGAAGGACTTTCATTTTGAGAAGATACCATTTGATCCAGCAGAAAT
GTCCAAATGAATATCAGGTCTCAATCTTCAGCTACAGGGAATGAGTAACTTTGAGTGGAGAAGAAACAAACATAG
TGGGTATAATCATGGATCGCTTGTACCCCTGTGAAAAATATATTTTTTAAAAATAAAAAAAAAAAAAA

2470/2825
FIGURE 2189

MTTEQRRSLQAFQDYIRKTLDPITYILSYMAPWFREEEVQYIQA EKNNKGPMEAATLFLKFLLLELQEEGWFRGFLD
ALDHAGYSGLYEAIESWDFKKIEKLEEYRLLLKRLQPEFKTRIIPTDIISDLSECLINQECEEILQICSTKGMMA
GAEKLVECLLRSDKENWPKTLKLALEKERNKFSELWIVEKGIKDVETEDLEDKMETSDIQIFYQEDPECQNLSEN
SCPPSEVSDTNLYSPFKPRNYQLELALPAMKGKNTIICAPTGCCKTFVSLICEHHLKKFPQGQKGKVVFANQI
PVYEQQKSVFSKYFERHGYRVTGISGATAENVPVEQIVENNDIILTPQILVNNLKKGTIPSLSIFTLMIFDECH
NTSKQHPYNMIMFNYLDQKLGGSSGPLPQVIGLTASVGVGDAKNTDEALDYICKLCASLDASVIATVKHNL EELE
QVVYKPKQKFFRKVESRISDKFKYIIAQLMRDTESLAKRICKDLENLSQIQNREFGTQKYEQWIVTVQKACMVFM
PDKDEESRICKALFLYTSHLRKYNDALIISEHARMKDALDYLDKDFFSNVRAAGFEEIEQDLTQRFEELQEELESV
SRDPSNENPKLEDLCFILQEEYHLNPETITILFVKTRALVDALKNWIEGNPKLSFLKPGILTGRGKTNQNTGMTL
PAQKCILDAFKASGDHNILIATSVADEGIDIAQCNLVILYEVGNVIKMIQTRGRGRARGSKCFLLTSNAGVIEK
EQINMYKEKMMNDSILRLQ TWDEAVFREKILHIQTHEKFIRDSQEKPKPVPDKENKKLLCRKCKALACYTADVRV
IEECHYTVLGDAFKECFVSRPHPKPKQFSSF EKRAKIFCARQNC SHDWGIHVKYKTFEIPVIKIESFVVEDIATG
VQTLYSKWKDFHFEKIPFDPAEMSK

2471/2825
FIGURE 2190

GGGGGGCACAGGGGAGACTAAAAAGGCCAGGGAAGTTGGCCTGCCGGAAGTTCCCAGGGAGAAGGCAGCGCGTTG
TACCCGAGTTACCTGTAGTCAACCACAGTCTGAAAATATTAAGGTATTTTAAGACAGAAAGAGAGAGAGGAGAGA
AACCGCATTACAAAAAAGAAATCCTCTTTTTAGAACATCTCTTGGTGGTACCATCAGAAATGTCCTTCCTTAAGT
GGAAAAGTCCAAACCGTTTGGGCCCTTGTAGAGCCAAGCAAACCTGGGCCGTACCCTGACCCATGAACACCTGGCC
ATGACCTTTGACTGCTGTACTGTCCACCTCCCCCGTGCCAGGAAGCTATTTCCAAAGAACCTATCGTGATGAAA
AATTTATATTGGATTACAGAAAAACGCCTATTCCCATAAAGAAAACCTTCAATTAAATCAGGAGACAGAAGCCATA
AAGGAAGAACTGTTGTATTTTAAAGCTAATGGTGGAGGGGCTTTGGTGGAAAACACAACCACTGGGATTAGCCGA
GACACACAGACGTTGAAGAGGCTTGCAGAAGAGACTGGCGTCCATATCATATCTGGAGCCGGGTTTTATGTGGAT
GCAACTCACTCCTCAGAGACCAGGGCCATGTCTAGTGGAGCAGCTTACCGATGTCCTTATGAATGAAATTCTCCAT
GGAGCTGATGGAACCACTATCAAGTGTGGCATTATTGGAGAAATTGGTTGCTCCTGGCCTTTGACTGAGAGTGAA
AGAAAGGTTCTCCAGGCCACAGCTCATGCCAGGCTCAGCTTGGTTGCTCCTGTTATTATCCATCCTGGACGGAGC
TCCAGGGCACCATTTCAGATTATCCGAATATTGCAAGAAGCAGGCGCAGACATCTCCAAAACAGTCATGTCACAC
CTGGATAGGACTATTCTTGATAAGAAAGAGCTCTTGGAGTTTGCTCAACTTGGCTGCTACTTGGAAATATGATCTC
TTTGGTACTGAACTACTTCATTACCAACTCGGCCAGATATTGACATGCCTGATGATAACAAAAGAATTAGAAGG
GTGCGTCTCCTGGTGGAAAGAGGGCTGTGAAGATCGAATTCTGGTAGCACATGACATACATACGAAAACCCGGCTG
ATGAAATATGGAGGTCACGGCTATTCTCATATACTACCAATGTTGTTCCCTAAAATGTTGCTGAGAGGCATAACT
GAGAATGTGCTTGATAAGATTCTAATAGAGAACCCTAAGCAATGGCTAACTTTCAAATAGGATGGTTGCTTATGA
ATTACACCTTGAGTATAAACTTGCAGAGAACATTACGCGATTTCCAGTCCACTGTGAGATATTAATCAGTTAC
CTAGGACTAATGACAGATCATTTCCTTCTGATGAGAACTAGGAGGGTTTGCCTTCTCTGAGACCAGCTATTACAA
CTGTGCCTCTAGGGAGTTACTCAGCCTAATTGAGCCCTATTATTTTAACTTAACAAAATAAATACAGAAGTACCT
ATTTCTAAACAATGATTTAAAGTCTATATCCCTAAGCGGAGTTGTTGTTTTTCTCCCTAATCTATCAGCTGCAC
TACTTGAGAAAATTTAAAGTGTTTCTAGTTAAATTATTTCTTCTTGAGCGATCTAATGTTTCTTGTAATATTGA
TGATCCTACTAATTATCCTGCTGTTCTTTAATTAATGCTTAATGAATAATATGGCACTGTAAAATAGCTTCTGCA
ACAAGGGAAGTTAAATTTTGAGACTTTTTTCCCCAAAGGATACTGACTGTAATACAATTACCAATTCACAATGAT
AAAAATATTTTGAAAGGTTAATTTTATACTGTCCACCTATCTATATATTCTTCTACTGAAATGATTTTGATATCT
TTGGCTTTCCGGTATCTATTTTGGCATACTTTTGTGTTTTTGCAAAGTTTGTATAAGAACACATAACACTACT
GAATTATAAAAAATCAATCATAAAAGTCAAAATATATTACATAATATAGTTTAATGAATCATTACATTTATAATA
ACAAAGGCCACAATTTAATTAATTGGTAAGATATAATGCAAAAAAAAAAAGAGAAATGTTTGCTTATGTATATT
CCCTTTATTTCTTTACCTTTTGTTCCTTGGACCTAAACAGAGAAAATAATGCTTATGTATCTGAAGAAAAG
GTCAGATCTATTGAAATGACAGCCCGATACTTGAGCCTCCTCTTTAAAAGGTATCCAGCCCTGATATTTTGTGT
AAATAAAATGTTTTTAAACCTGTTAGTTAAACACTTAGGTGATGGGCACTGCTGCTTATAAATTCATCTTTG
GTTGAATCCTCACTATGCTATTTGGTACCTAAAAATATTCTCCAAACCTTGCTGCCAGTTCTCTTTGATAAAT
ATATAGTTAATTCGAAATAAAATCCATTGCAATTCATTTATGAGTTATCTTACATATCACAAAGACCAATTAGAA
TTAGTCATTATTCTTGATGAAGAGTCTGTTTTTAATCATAAAAATCATGACAGTTACTCAGACCCAGGCATTTCA
ACAGAGCTAACACCACCTTCAGATAGGCACACCATGCATAACTCTGGGAAGTTGAGCTTTGCTAAATAAAAGAT
ATTTCTGCTGATCAAAGATGATCAAGCTTTCTGTGTATTGGAACAGAAAGTAACAAAGAGGAATGAGCCAGGAGA
ACAAACTAATTCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

2472/2825
FIGURE 2191

MSSLSGKVQTVLGLVEPSKLGRTLTHEHLAMTFDCCYCPPPPCQEAI SKEPIVMKNLYWIQKNAYSHKENLQLNQ
ETEAIKEELLYFKANGGGALVENTTTGISRDTQTLKRLAEETGVHII SGAGFYVDATHSSETRAMSVEQLTDVLM
NEILHGADGTSIKCGIIGEIGCSWPLTESERKVLQATAHAQAQLGCPVIIHPGRSSRAPFQIIRILQEAGADISK
TVMSHLDRAILDKKELLEFAQLGCYLEYDLFGTDLLHYQLGPDIDMPDDNKRI RRVRLLEEGCEDRILVAHDIH
TKTRLMKYGGHGYSHILTNVVPKMLLRGITENVLDKIL IENPKQWLTFK

2473/2825
FIGURE 2192

AACTGATCGCGGCCTAGTCCCGACGCGTGTGTGCTAGTGAGCCGGAGCCGGCGACGGCGGCAGTGGCGGCCCGGC
CTGCAGGAGCCCCGACGGGGTCTCTGCCATGGGGGAGTGACGCGCCTGCACCCGCTGTTCCGCGGCAGCGGCAGAG
CATGAGGAGACCCCGCGACAGGGGCAGCGGCGGCGGCTCGTGAGCCCCGGGATGGAGGAGAAATACGGCGGGGAC
GTGCTGGCCGGCCCCGGCGGCGGCGGCGGCGGCTTGGGCCGGTGGACGTACCCAGCGCTCGATTAACAAAATATATT
GTGTTACTATGTTTCTACTAAATTTTTGAAGGCTGTGGGACTTTTTCGAATCATATGATCTCCTAAAAGCTGTTTAC
ATTGTTCAAGTTCATTTTTATATTAAACTTGGGACTGCATTTTTTATGGTTTTGTTTCAAAGCCATTTTCTTCT
GGGAAAACATTATTACCAAACACCAGTGGATCAAATAATTTAAACATGCAGTTGCTGGGTGTATTATTTCACTCTTG
TGGTTTTTTGGCCTCACTCTTTGTGGACCACTAAGGACTTTGCTGCTATTTGAGCACAGTGATATTGTTGTCATT
TCACTACTCAGTGTTTTGTTTACCAGTTCTGGAGGAGGACCAGCAAAGACAAGGGGAGCTGCTTTTTTCATTATT
GCTGTGATCTGTTTATTGCTTTTTGACAATGATGATCTCATGGGCTAAAATGGCTGAACACCCTGAAGGACATCAT
GACAGTGCTCTAACTCATATGCTTTACACAGCCATTGCCTTCTTAGGTGTGGCAGATCACAAGGGTGGAGTATTA
TTGCTAGTACTGGCTTTGTGTTGTAAAGTTGGTTTTTCATACAGCTTCCAGAAAGCTCTCTGTGCGACGTTGGTGGG
GCTAAACGCTTCAAGCTTTATCTCATCTTGTCTGTGCTTCTCTTGTGCCATGGGTGCTTGTCTTTCTGTG
ACAACAGAGTAAAGTGGAGTCTTGGTTTTCTCTCATTATGCCTTTTGCAACGGTTATCTTTTTTGTGATGATC
CTGGATTTCTACGTGGATTCCATTTGTTTCAAGTCAAAATGGAAAGTTTCCAAATGTGCTCGTTATGGATCCTTTCCC
ATTTTTATTAGTGCTCTCCTTTTTTGAAATTTTTGGACACATCCAATAACAGACCAGCTTCGGGCTATGAACAAA
GCAGCACACCAGGAGAGCACTGAACACGTCTGTCTGGAGGAGTGGTAGTGAGTGCTATATTCTTCATTTTGTCT
GCCAATATCTTATCATCTCCCTCTAAGAGAGGACAAAAAGGTACCCTTATTGGATATTCTCCTGAAGGAACACCT
CTTTATAACTTCATGGGTGATGCTTTTTCAGCATAGCTCTCAATCGATCCCTAGGTTTATTAAGGAATCACTAAAA
CAAATTCCTTGAGGAGAGTGACTCTAGGCAGATCTTTTACTTCTTGTGCTTGAATCTGCTTTTTTACCTTTGTGGAA
TTATTCTATGGCGTGCTGACCAATAGTCTGGGCCTGATCTCGGATGGATTCCACATGCTTTTTTACTGCTCTGTCT
TTAGTCATGGGACTTTTTTGTGCTGCCCTGATGAGTAGGTGGAAAGCCACTCGGATTTTTCTCCTATGGGTACGGCCGA
ATAGAAAATTCTGTCTGGATTTATTAATGGACTTTTTTCTAATAGTAATAGCGTTTTTTGTGTTTATGGAGTCAGTG
GCTAGATTGATTGATCCTCCAGAATTAGACACTCACATGTTAACACCAGTCTCAGTTGGAGGGCTGATAGTAAAC
CTTATTGGTATCTGTGCCTTTAGCCATGCCCATAGCCATGCCCATGGAGCTTCTCAAGGAAGCTGTCACTCATCT
GATCACAGCCATTACACCATATGCATGGACACAGTGACCATGGGCATGGTCACAGCCACGGATCTGCGGGTGGG
GGCATGAATGCTAACATGAGGGGTGTATTTCTACATGTTTTTGGCAGATACTCTTGGCAGCATTGGTGTGATCGTA
TCCACAGTTCTTATAGAGCAGTTTGGATGGTTTCATCGCTGACCCACTCTGTTCTCTTTTTATTGCTATATTAATA
TTTCTCAGTGTTGTTCCACTGATTAAAGATGCCTGCCAGGTTCTACTCCTGAGATTGCCACCAGAATATGAAAA
GAACTACATATTGCTTTAGAAAAGATACAGAAAATTGAAGGATTAATATCATACCGAGACCCTCATTTTTTGGCGT
CATCTGCTAGTATTGTGGCAGGAACAATTCATATACAGGTGACATCTGATGTGCTAGAACAAAGAATAGTACAG
CAGGTTACAGGAATACTTAAAGATGCTGGAGTAAACAATTTAAACAATTCAGTGGAAAAGGAGGCATACCTTCAA
CATATGTCTGGCCTAAGTACTGGATTTTCATGATGTTCTGGCTATGACAAAACAAATGGAATCCATGAATTAATGCTC
AAAGATGGTACTTACATCATGTGAGATAACTCAAGAATTACCCCTGGAGAATAAACAATGAAGATTAATGACTC
AGTATTTGTAATATTGCCAGAAGGATAAAAAATTACACATTAACGTGTACAGAAACAGAGTTCCCTACTACTGGATC
AAGGAATCTTTCTTGAAGGAAATTTAAATACAGAATGAAACATTAATGGTAAAAGTGGAGTAATTTTAAATTA
TGTGTATAAAAGGAATCAAATTTTGAAGTAAACATGATGTATTACATCATCTTCGAAAATAGATATGATGGATTCT
AGTGAAGACCAAATTAATTTCTGTTTACTTTCTATCAGGAAGCATCTCCATTGTAAATATGTATTTACATGTTTA
TTACAAAAGACCCAAATGAAAAATTTTTAGTCCATTTTTTGCATAGCCTAAAGATAAAATAGGAATAAAAGTTCTA
TATTTATGGAAAAA

2474/2825
FIGURE 2193

MAKMAEHPEGHHDSAL THMLYTAIAFLGVADHKGGVLLLVLALCCKVGFHTASRKLSVDVGGAKRLQALSHLVSV
LLLCPWVIVLSVTTESKVESWFSLIMPFATVIFVFMILDFYVDSICSVKMEVSKCARYGSFPIFISALLFGNFWT
HPITDQLRAMNKAHQESTEHVLSGGVVVSAIFFILSANILSSPSKRGQKGTILIGYSPEGTPLYNFMGDAFQHSS
QSIPRFIKESLKQILEESDSRQIFYFLCLNLLFTFVELFYGVLTNSLGLISDGFHMLFDCSALVMGLFAALMSRW
KATRIFSYGYGRIEILSGFINGLFLIVIAFFVFMESVARLIDPPELDTHMLTPVSVGGGLIVNLIGICAFSHAHS
AHGASQGSCHSSDHS SHHMHGSDHGHGSHSGSAGGGMNANMRGVFLHVLADTLGSIGVIVSTVLIEQFGWFIA
DPLCSLFIAILIFLSVVPLIKDACQVLLRLPPEYEKELHIALEKIQKIEGLISYRDPHFWRHSASIVAGTIHIQ
VTSDVLEQRIVQQVTGILKDAGVNNLTIQVEKEAYFQHMSGLSTGFHDVLAMTKQMESMKYCKDGTIYM

2475/2825
FIGURE 2194

GGCAGCGGGCGAAAAGGAGCCGGGGCCTGGAGGTTTGCGTACCGGTCGCCTGGTCCCGGCACCAGCGCCGCCAGT
GTGGTTTCCCATAAGGAAGCTCTTCTTCCTGCTTGGCTTCCACCTTTAACCCTTCCACCTGGGAGCGTCCCTCTAA
CACATTTCAGACTACAAGTCCAGACCCAGGAGAGCAAGGCCAGAAAAGAGGTCAAAATGGGGTTTATATTTTCAAA
ATCTATGAATGAAAGCATGAAAAATCAAAAGGAGTTCATGCTTATGAATGCTCGACTTCAGCTGGAAAGGCAGCT
CATCATGCAGAGTGAAATGAGGGAAAGACAAATGGCCATGCGGATTGCGTGGTCTCGGGAATTCCTCAAATATTT
TGGAACTTTTTTTGGCCTTGCAGCCATCTCTTTAACAGCTGGAGCGATTAAAAAAAAGAAGCCAGCCTTCCTGGT
CCCGATTGTTCCATTAAAGCTTTATCCTCACCTACCAGTATGACTTGGGCTATGGAACCTTTTAGAAAGAATGAA
AGGTGAAGCTGAGGACATACTGGAAACAGAAAAGAGTAAATTGCAGCTGCCAAGAGGAATGATCACTTTTGAAAG
CATTGAAAAAGCCAGAAAGGAACAGAGTAGATTCTTCATAGACAAAATGAATCATGCTTACCAATCAAATCTCAA
AGCACAGAATTATTGACTTGAATCATGGTTTTTACAGTTTTTTAAATGCTCAAGATTTTGATATTATAGATTTTA
TTTTAAATATTAAATGCAAGATAGTTTTGAGCTATTTTAAATATAACATTCAACACAAAATCATG
GAGGTGCTCTAAATAACTTTTAGATTTCTCTCTCTGTGTGCATTACCAATATCTAAGTGTAATAATAAAT
GTTTTGAATTCCTGGAAAAAAAAAAAA

2476/2825
FIGURE 2195

MGFIFSKSMNESMKNQKEFMLMNARLQLERQLIMQSEMRRERQMAMRIAWSREFLKYFGTFFGLAAISLTAGAIKK
KKPAFLVPIVPLSFILTYQYDLGYGTLLERMKGAEEDILETEKSKLQLPRGMITFESIEKARKEQSRFFIDK

2477/2825
FIGURE 2196

TTAGCACCTGGCACTAGGCGGAGAGAGGCGGTAAGCCGCGAGGAGGAAAGGACTCACGTCCCGCTGTGGACCGAT
CCTGCTAAGCAGAGAATCGCTGTGGCCGGACGACGGGGCGTCGAGACAAGAAGAAAGACGTTGGCAACTCCCACA
AGGCCTAGGGCCACGTCCCGCCGTCCTCGGCTGCTGAGCCTGATGGGACAAGTAGTTTTGCGAACGGCTTAAACCT
ACTGATTGAAGAGGTCGGAAGCTCTGAGGCCCCGGGGCTTCCGGAGGTCGCGGAGATGGAATTGGAGCAGAGAGAA
GGGACCATGGCAGCCGTTGGGCTTTGAGGAGTTCTCAGCGCCGCCAGGCTCAGAGTTGGCGTTGCCTCCCCTATTT
GGTGGCCACATCCTGGAGAGCGAGCTGGAGACGGAAGTGGAGTTTGTGTCTCAGGTGGTCTGGGCGGCTCAGGGCTC
CGGGAGCGAGATGAAGAGGAAGAGGCAGCCCCGGGGTCTCGGCGGCGGCGCCAGCGGGAATTAAATCGCAGAAAGTAC
CAGGCACTAGGTTCGGCGCTGCCGGGAGATCGAGCAGGTGAACGAGCGGGTCCTGAACAGGCTCCATCAGGTGCAG
AGGATAACTCGGAGGCTGCAGCAGGAACGGAGGTTCTCATGAGAGTGCTGGACTCCTACGGGGATGACTACCGG
GCCAGCCAGTTCACCATTGTGCTGGAGGATGAGGGCAGCCAGGGCACGGATGCCCCACCCCAGGCAATGCGGAG
AATGAGCCTCCAGAGAAAGAGACACTGTCCCCGCCAGAAGGACTCCTGCACCCCCAGAACCCGGCAGCCCAGCC
CCCGGTGAGGGGCCAGTGGGCGGAAGAGGCGGCGAGTGCCACGGGATGGACGCCGAGCAGGAAATGCGCTGACT
CCAGAGCTGGCCCCGGTGCAGATTAAAGTTGAGGAAGACTTTGGCTTTGAAGCAGATGAGGCCCTGGATTCCAGT
TGGGTTTCTCGGGTCCAGACAACTGCTGCCCTACCCGACCCTGGCCAGCCAGCCTCTGACTTGACGCATGCCC
AATAAACTGACCCACACCAAAAAAAAA

2478/2825
FIGURE 2197

MELEQREGTMAAVGFEEFSAPPGSELALPPLFGGHILESELETEVEFVSGGLGGSGLRERDEEEEAARGRRRRQR
ELNRRKYQALGRRCREIEQVNERVLNRLHQVQRITRRLQQERRFLMRVLDSYGDDYRASQFTIVLEDEGSQGTDA
PTPGNAENEPPEKETLSPPRRTPAPPEPGSPAPGEGPSGRKRRRVPRDGRRAGNALTPELAPVQIKVEEDFGFEA
DEALDSSWVSRGPDKLLPYPTLASPASD

2479/2825
FIGURE 2198

AGAGAGCTGTTTACTAGGCACGACTGCGAAGGCAAGGGGGCACCAGCTCAGGACTGCATCTGCCTGCCATTTCCC
TTCCACTCCTCCTTTTCTGGAGTCTGACATTAGAAAAGCCAGCGAGAAGGAAGATTCAAACAACCAACCCTGATTTC
CTGCTTCTCCTTTTTCATGAGTGTTCCTGTGGTCTCTGCACCTCCTTTCTGTCCCCCGGCAGAGGGCAGTAGAGAT
GCGCCGGCCCAAGGCCTCGGTGGCGCGACCAGCTGCTGTTTCATGAGCATCATAGTCCTCGTGATTGTGGTCATCTG
CCTGATGTTATACGCTCTTCTCTGGGAGGCTGGCAACCTCACTGACCTGCCCAACCTGAGAATCGGCTTCTATAA
CTTCTGCCTGTGGAATGAGGACACCAGCACCTTACAGTGTACCAGTTCCCTGAGCTGGAAGCCCTGGGGGTGCC
TCGGGTTGGCCTGGGCCTGGCCAGGCTTGGCGTGTACGGGTCCCTGGTCCCTCACCCCTCTTTGCCCCCAGCCTCT
CCTCCTAGCCCAGTGCAACAGTGATGAGAGAGCGTGGCGGCTGGCAGTGGGCTTCTGGCTGTGTCTCTGTGCT
GCTGGCAGGCGGCCTGGGCCTCTTCTCTCCTATGTGTGGAAGTGGGTGAGGCTCTCCCTCCGGGGCCTGGGTT
TCTAGCTCTGGGCAGCGCCAGGCCTTACTCATCCTCTTGCTTATAGCCATGGCTGTGTTCCCTCTGAGGGCTGA
GAGGGCTGAGAGCAAGCTTGAGAGCTGCTTAAAGGCTTACGTGATTGCAAGGGTTCAGTTCCAACCATAGTCAGAG
GTGGCACATCTGCTCAGCCATCTCATTTTACAGCTAACGCTGATCTCCAGCTCCAGCGATGGAACCCACTACAGA
GGAGGTGGGGCCCCTGTGTCAAAGAGGCCGAGGGGCAGCAAGGGCAGCCAGGGCACCTGTGACTTCTTAGTACAA
GATTGTCTGTCTTCAGGACTTCCAAGGCTCCCAAAGACTCCCTAAACCATGCAGCTCATTGTACACCAATTCC
TGCTTTAATTAATGGATCTGAGCAAATCTTCTCTAGCTTCAGGAGGGTGGGGAGGGAGTGATTGCCGTCATGGG
GCCAGACTTCCAGGCTGATTTGCCAAATGCCAAATGAAACCTAGCAAAGAACTTACGGCAACAAACGAGGACAT
TAAAAGAGCGAGCACCTCAGTGTCTCTGGGGACATGGTTAAGGAGCTTCCACTCAGCCCACCATAGTGAGTGGGC
CGCCATAAGCCATCACTGGAACCTCAACCCCAGAGGTCCAGGAGTGATCTCTGAGTGACTCAACAAAGACAGGAC
ACATGGGGTACAAAGACAAGGCTTGACTGCTTCAAAGCTTCCCTGGACCTGAAGCCAGACAGGGCAGAGGCGTCC
GCTGACAAATCACTCCCATGATGAGACCCTGGAGGACTCCAAATCCTCGCTGTGAACAGGACTGGACGGTTGCGC
ACAAACAAACGCTGCCACCCTCCACTTCCCAACCCAGAAGCTTGGAAGACATTAGCACAACTTACGCATTGGGGA
ATTGTGTGTATTTTCTAGCACTTGTGTATTGGAAAACCTGTATGGCAGTGATTTATTATATATTCCTGTCCAAA
GCCACACTGAAAACAGAGGCAGAGACATGT

2480/2825
FIGURE 2199

MAGPRPRWRDQLLFMSIIVLVIVVICMLLYALLWEAGNLTDLPNLRIGFYNFCLWNEDTSTLQCHQFPELEALGV
PRVGLGLARLGVGSLVLTTFAPQPLLLAQCNSDERAWRLAVGFLAVSSVLLAGGLGLFLSYVWKWVRLSLPGPG
FLALGSAQALLILLILLIAMAVFPLRAERAESKLESC

2481/2825
FIGURE 2200

GCTCCGGGTGTCCCGAGAGTTGTCCTGCGCCGGTGTTCACGTGCGGCCTGAACCTGAGCGCATAATGTTATGA
GGAGATGGGAGCACTAGTGATTGCGGGTATCAGGAATTTCAACCTAGAGAACCGAGCGGAACGGGAAATCAGCAA
GATGAAGCCCTCTGTCGCTCCCAGACACCCCTCTACCAACAGCCTCCTGCGAGAGCAGATTAGTCTCTATCCAGA
AGTTAAAGGAGAGATTGCTCGTAAAGATGAAAAGCTGCTGTCGTTTCTAAAAGATGTGTATGTTGATTCCAAAGA
TCCTGTGCTTCCTTGCAGGTAAAAGCTGCTGAAACATGTCAAGAGCCGAAGGAATTCAGATTGCCGAAAGACCA
TCATTTTGATATGATAAATATTAAGAGCATTCCCAAAGGCAAAATTTCCATTGTAGAAGCATTGACACTTCTCAA
TAATCATAAGCTTTTCCAGAAACCTGGACTGCTGAGAAAATAATGCAAGAATACCAGTTAGAACAGAAAGATGT
GAATTCTCTTCTTAAATATTTTGTTACTTTTGAAGTCGAAATCTTCCCTCCTGAAGACAAGAAAGCAATACGATC
AAAAATGAAGAAAATCACAGAAATTTCTATGTGTACTCCTCATCCCTCCTGCTGTATATTTTCTCATTTTTTGCG
TAATAAATTATGTTAATTACCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

2482/2825
FIGURE 2201

MGALVIRGIRNFNLENRAEREISKMKPSVAPRHPSTNSLLREQISLYPEVKGEIARKDEKLLSFLKDVYVDSKDP
VSSLQVKAETCQEPKEFRLPKDHHFDMINIKSIPKGKISIVEALTLLNNHKLPETWTAEKIMQEYQLEQKDVN
SLLKYFVTFEVEIFPPEDKKAIRSK

2483/2825
FIGURE 2202

GAGTTTTCATTTGTGGTGAGATTCTCTCCCAGGCCACAAGACATTTCTGCTCGGAACCTTGTTTACTAATTTCC
ACTGCTTTTAAGGCCCTGCACTGAAAATGCAAGCTCAGGCGCCGGTGGTCGTTGTGACCCAACCTGGAGTCGGTC
CCGGTCCGGCCCCCAGAACTCCAAGTGGCAGACAGGCATGTGTGACTGTTTCAGCGACTGCGGAGTCTGTCTCT
GTGGCACATTTTGTTCCTCGTGCCTTGGGTGTCAAGTTGCAGCTGATATGAATGAATGCTGTCTGTGTGGAACAA
GCGTCGCAATGAGGACTCTCTACAGGACCCGATATGGCATCCCTGGATCTATTTGTGATGACTATATGGCAACTC
TTTGCTGTCCTCATTGTACTCTTTGCCAAATCAAGAGAGATATCAACAGAAGGAGAGCCATGCGTACTTTCTTAAA
AACTGATGGTGAAAAGCTCTTACCGAAGCAACAAAATTCAGCAGACACCTCTTCAGCTTGAGTTCTTCACCATCT
TTTGCAACTGAAATATGATGGATATGCTTAAGTACAAGTATGGCATGAAAAAATCAAATTTTTGATTTATTAT
AAATGAATGTTGTCCCTGAACTTAGCTAAATGGTGCAACTTAGTTTCTCCTTGCTTTTCATATTATCGAATTTCCCT
GGCTTATAAACTTTTTAAATTACATTTGAAATATAAACCAATGAAATATTTTAACTGATAAAAAAAAAAAAAAA
AAATAAAAAA

2484/2825
FIGURE 2203

MQAQAPVVVVTQPGVGPGPAPQNSNWQTGMCDCFSDCGVCLCGTFCFPCLGCQVAADMNECCLCGTSVAMRTLYR
TRYGIPGSICDDYMATLCCPHCTLQIKRDINRRRAMRTF

2485/2825
FIGURE 2204

GTGACCGGAGGCGAGAAACCCCGCCTCGGCACCCTGACGCAGCGCAGGACCCGCCCCGCGCGTGACGCCAGCGTC
AGGCCAGCCCCGGCATGCTCTGCGGCCGCCCGCGGTCCAGCTCCGACAACAGGAATTTCTCCGAGAGCGGGCCG
GGCTCAGTTCAGCTGCTGTCCAGACCCGGATCGGCAACAGTGCCGCCTCCAGACGTTCTCCTGCCGCTCGCCCCG
CCGTCCCAGCGCCCCCAGCCCTCCCGCGAGGGCGCCCCGGGACGGAAGGATCCACCAGTCTGTGCGCGCCCCGCG
TTCTCGTGGTGCCTGCGCGTCTGCTGCTGGTGGTAGTCTCCGCCGTCGCCTGGGCCATGGCCAATTACATCCACG
TCCCTCCCGGCTCCCCGGAGGTGCCAAGCTGAACGTCACCGTTCAGGATCAGGAGGAGCATCGCTGCCGGGAGG
GGGCCCTGAGCCTCCTGCAACACCTGCGGCCTCACTGGGACCCCCAGGAGGTGACCCTGCAGCTCTTCACAGATG
GAATCACAAATAAACTTATTGGCTGTTACGTGGGAAACACCATGGAGGATGTAGTCCTGGTGAGAATTTATGGCA
ATAAGACTGAGTTATTAGTCGATCGAGATGAGGAAGTAAAGAGTTTTTCGAGTGTTGCAGGCTCATGGGTGTGCAC
CACAACCTCTACTGTACCTTCAATAATGGACTATGCTATGAATTTATACAAGGAGAAGCACTGGATCCAAAGCATG
TCTGCAACCCAGCCATTTTTCAGGCTAATAGCTCGTCAGCTTGCTAAATCCATGCTATTCATGCACACAATGGCT
GGATCCCCAAATCTAATCTTTGGCTAAAGATGGGAAAGTATTTCTCTCTCATTCCCACAGGATTTGCAGATGAAG
ACATTAATAAAAGGTTCCCTAAGTGATATCCCAAGCTCTCAGATTCTCCAGGAAGAGATGACTTGGATGAAGGAGA
TTCTTTCCAACCTGGGCTCACCTGTTGTGCTTTGCCATAATGACCTATTGTGTAAGAATATAATCTACAATGAGA
AACAAGGTGATGTACAGTTCATTGATTATGAATATTCTGGATACAACTACCTGGCATATGATATTGGAAATCATT
TCAATGAATTTGCAGGTGTGAGTGATGTAGACTATAGTCTGTATCCAGATAGAGAACTACAGAGTCAGTGGCTGC
GTGCTTACCTTGAAGCCTACAAAGAATTTAAGGGCTTTGGGACTGAAGTTACTGAAAAGGAGGTAGAAATACTCT
TCATTCAAGTCAATCAGTTTGCATTGGCTTCTCATTTCTTTTGGGGATTGTGGGCTTTGATTCAAGCCAAATACT
CCACTATTGAGTTTGATTTCTTTGGGTATGCAATTGTTCTGTTTTAACAGTACTTTAAATGAAGCCTGAGGTTA
CTGCATTAAAAGTGCCTGAGTAAAGAAGAGATTTAATTATTCTCCAGTAGCTGAGCAATGCTTGTGAATCTTTTC
TTAAGAAATCCCAAAAAGCCAATATTAGTTAAATTTCTGTTGTTTAATTTGGTTATCTTGCTTTATAAATTATGC
CTCTAAACAATCAAATCTATTTTGAATAGACTGAATGATGTCAAGAAATATACCTACTGCTATCCGTATGTGG
TGGATTAGAAATGTGTTAAATCTGCAAAAGGTATAAAGATGTCAGTTTAATTTCTTTGATAATTTAACCTATGTT
GTATGTGAATTATTTATTATAAACTTAGCACGATTCTGTGACTGTTTTCTCTGTTTCACGTTCTGTTGAGTGTA
GCAATGAAAATGTCCCAATAAGTTTTTTAAGTTTTACTTTAATAAGATTAATTTTCAGTAAACATTCTAGTTGTT
CAGTGTAACCTTTTTATCTTGATGCATTGTAAGTAAATGAATCATTTACTCTTGAAATGCCAGTCATTGACTGA
TGTAAGATAATTTAGGATTTTCATATAAAAAATAGCTGTTTAGGAAGGTGAAATACATTCAGTCTCTGTTGGTGG
TACATCTTGTTGAATTCAATATTAGAAAAGTATTTCTTTTGGGGTAATATAACTTAGAAATTAATCCCTGTTTCT
CTATGTAGTCTGGCAGTATAAATATAAATATTTACCATATAATCTTGGAATAAGTATTAGTTAATGTTACCAAAA
TCTGTATTAAATAATGTTTTCAAATGCTAAAAAAAAAAAAAAAAAAAA

2486/2825
FIGURE 2205

MLCGRPRSSSDNRNFLRERAGLSSAAVQTRIGNSAASRRSPAARPPVPAPPALPRGRPGTEGSTLSAPAVLVVA
VAVVVVVVSAAVAMANYIHVPPGSPEVPKLNVTVDQEEHRCREGALSLLQHLRPHWDPQEVTLQLFTDGITNK
LIGCYVGNTMEDVVLVRIYGNKTELLVDRDEEVKSFRVLQAHGCAPQLYCTFNNGLCYEFIQGEALDPKHVCNPA
IFRLIARQLAKIHAIHAHNGWIPKSNLWLKMGKYFSLIPTGFADEDINKRFLSDIPSSQILQEEMTWMKEILSNL
GSPVVLCHNDLLCKNIIYNEKQGDVQFIDYEYSGYNYLAYDIGNHFNFAAGVSDVDYSLYPDRELQSQWLRAYLE
AYKEFKGFGTEVTEKEVEILFIQVNQFALASHFFWGLWALIQA KYSTIEFDLGYAIVRFNQYFKMKPEVTALKV
PE

2487/2825
FIGURE 2206A

CGAAATGAGAGCAAAAAGGGAGAGAGCAGGAAAGCGAGCACAGGCGAGTACAGTATACAAAGTGTTTTGAGTTTC
TGA CTGGCGTGCCGGAAGATCATGTTAGCACACCCAGAACTCCACACGATGCAGACCCAGAGGTACCAGCAG
AAAGGTCCCCTCGTAGACGGAGTATCTCAGGGACCAGTACATCAGAGAAACCCAACTCCATGGACACTGCAAATA
CCTCACCTTCAAAGTACCAGGATTCTTCAGCAAGCGCCTGAAAGGCTCCATCAAGAGGACCAAAAGCCAGTCAA
AGCTTGACAGAAACACGAGCTTTCGGCTTCCATCCCTTCGCAGTACAGATGACAGGTCTCGTGGGCTGCCTAAAC
TAAAAGAGTCACGTTCCCATGAATCCTTGCTGAGCCCATGCAGCACAGTGGAATGTCTGGATCTTGGTAGAGGGG
AACCTGTATCAGTGAAACCACTTCATAGTAGCATCCTTGGACAAGACTTCTGCTTTGAGGTTACCTACTTAAGTG
GAAGTAAATGCTTCAGCTGTAATTCTGCTTCTGAGAGAGACAAGTGGATGGAAAACCTTCGCAGGACAGTTCAAC
CTAATAAGGACAATTGCAGGCGAGCTGAAAATGTTCTTCGTTTATGGATCATTGAAGCCAAGGACCTTGCCCCTA
AAAAGAAATATTTCTGCGAACTGTGCCTTGATGATACCTCTTTGCTCGTACAACCAGCAAGACCAAGCAGACA
ATATTTTCTGGGGCGAACATTTTGAATTCCTCAGCCTTCCACCTCTTCATAGTATCACAGTTCACATTTACAAGG
ATGTGGAAAAAAGAAAAAAGGACAAGAATAATTATGTAGGGCTAGTCAACATCCCCACTGCCAGTGTGACTG
GTCGCCAATTTGTAGAAAAGTGGTATCCAGTGAGTACACCTACACCCAACAAGGAAAGACAGGAGGACCTTCTA
TTCGGATTAAATCACGTTTCCAACTATCACCATTCTGCCTATGGAGCAATACAAAGAATTTGCAGAATTTGTCA
CCAGCAACTACACCATGCTGTGTTCTGTCTTGAGCCAGTAATTAGTGTGAGAAATAAAGAGGAGTTGGCTTGTG
CCTTAGTGACATTTCTCAAAGTACTGGCAGAGCCAAGGATTTTCTGACTGACTTGGTGATGTCTGAGGTGGATC
GTTGTGGAGAGCATGATGTCTTGATCTTCAGAGAGAACACTATTGCCACCAAATCCATTGAGGAATACCTCAAGT
TGGTGGGACAACAGTATCTTCATGACGCACTGGGGGAGTTTATCAAAGCTTTGTATGAGTCCGATGAGAACTGTG
AAGTGGATCCAGCAAATGTTTCATCTAGTGAAGTATAGACCATCAGAGCAACCTGAAAATGTGCTGTGAGCTGG
CTTTCTGCAAGATCATCAACTCTTACTGTGTTTTCCCTCGTGAGTTGAAAGAAGTGTGTCATCATGGAAGCAGC
AGTGCCTGAACCGTGGCAAGCAAGACATCAGCGAGAGGCTCATCAGTGCCTCATTATTTCTCCGTTTTCTGTGTC
CAGCCATTATGTCTCCCAGTCTTTTCAACCTTATGCAGGAGTATCCTGATGACCGCACATCTCGGACTCTAACTC
TTATTGCCAAGGTCATTTCAGAACCTGGCCAACCTTTGCCAAGTTTGGTAACAAGAGGAATACATGGCATTTCATGA
ATGATTTTTTTAGAACATGAATGGGTGGAATGAAGCGCTTTCTTTTGGAGATCTCTAATCCAGACACCATCTCAA
ACACCCAGGCTTTGATGGTTACATTGATCTGGGCCGAGAGCTTTCAGTTTTGCATTCTTACTGTGGGAAGTAG
TTTCCCAACTTGATAAGGGTGAAAATTCCTTCTACAGGCGACCGTGGCAAAATTGGGGCCTCTCCCTCGTGTTTC
TTGCTGATATTACCAAGTCATTGACTAATCCTACGCCAATACAACAGCAACTGAGACGCTTCACTGAACATAACT
CCAGTCCAAATGTCAGTGGAAGCCTCTCCTCTGGGCTGCAGAAAAATTTGAAGACCCCACTGACAGTGATTTGC
ATAAACTAAAAATCTCCAAGCCAGGACAACACAGACAGCTACTTCAGAGGGAAAACATTATTGCTGGTTCAGCAAG
CCTCCTCTCAGAGCATGACTTATTCTGAAAAGGATGAAAAGGAAAAGTAGCCTTCTAATGGTCGGAGCGTCTCCC
TCATGGACCTCCAGGACACTCATGCTGCTCAAGTGGAGCATGCATCTGTCAIGCTTGATGTGCCTATACGCTTGA
CCGGAAGCCAGCTTTCATAAACCAGGTGGCCAGCATCAAACAGCTGCGGGAAACCCAGAGCACTCCCCAAAAGTG
CACCCCAAGTGAGAAGGCCCTGCACCCAGCCTTGAACCAGCCAGGTGGCCTTCAGCCCTTGTCTGTTCCAGAACC
CTGTCTATCACCTCAATAACCAATTCCAGCAATGCCAAAGGCCTCTATAGATTCCAGTTTGGAGAACCTAAGCA
CTGCCAGTTCAGAAGCCAAAGTAACAGTGAAGACTTCAAGCTCAGTGGACCCAGCAATAGCAGCATGGAAGATT
TCACTAAACGTAGCACTCAGAGTGAGGACTTCTCCAGGCGGCACACGGTGCCAGATAGACACATACCTCTTGCTT
TGCCACGACAAAATAGTACTGGGCAGGCCAGATCCGAAAAGTGGACCAGGGTGGGTTAGGTGCCCCGAGCCAAAG
CCCCACCATCCCTGCCACACAGTGCTTCTTTACGTAGCACCGGGAGCATGTCACTGGTGTCCGCAGCCCTGGTGG
CCGAACCTGTGCAGAAATGGGAGCCGGTCCCGGCAGCAGTCTCTTCTCCAGAGAGAGCCCTGTTCCCAAAGTTA
GAGCAATCCAGAGACAACAGACACAGCAGGTTTCACTACCTGTGGACTCTGCCACAATGTCCCCAGTAGAGAGGA
CAGCAGCCTGGGTTCTGAACAATGGGCAGTATGAAGAGGATGTGGAAGAACTGAGCAAAATCTAGATGAAGCCA
AGCATGCTGAGAAGTATGAACAAGAAATTACTAACTGAAGGAGCGCCTGAGAGTTTCCAGCCGGCGACTGGAGG
AATATGAACGCCGCTTGCTGGTGCAGGAGCAGCAGATGCAGAAAGTGTCTGCTGGAATACAAGGCCCGACTGGAGG
ACAGCGAGGAGCGGCTCCGAAGACAGCAGGAAGAAAAAGATAGCCAGATGAAAAGCATCATCAGCAGGCTAATGG
CTGTGGAAGAGGAACTGAAGAAGGATCATGCTGAGATGCAAGCAGTTATTGATGCAAGCAGAAAATAATTGATG
CACAGGAAAAACGGATCGTGTCCCTGGATTACAGCCAACACCAGACTGATGAGCGCGCTGACCCAAGTGAAGGAGC
GGTACAGCATGCAGGTCCGCAATGGCATCTCCCCACCAACCCACCAAGCTTTCCATCACGGAGAATGGTGAAT
TCAAAAACAGCAGCTGCTGACGGGCTTTGTCTGTGGAAGGAGACAGAAGGAAATTGACCCACTCTCCTATCTCCA

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FIGURE 2206B

GACCTTTACCTAGCCCCCTCCAGGTTTACAGAATGTTGCTACTTCACAATGGCGATGTGGTGAGAACTCCTGAAT
GAAGAAAGGAACCTTGTCTTTCAGGGCATAAGGCGGCGACTTCCAAGGTCAATGCTTTTCCCCCACATCTCTATG
TACATAGGGAACCTTAGTTCTGGGCCATGTACAGAAAATATCACTGTAAATATACCAAAGGAAGTTAATAATGTAG
ATTACCTTTTTTGATTATTGCTATTTTTATTATTGTTTTCTCTTGTGAAAGCACTGCAGTTGTTACAGGAAGTA
AAGTAGGAATGTTGTGTGAGCGAGACATGAGCCTGTAGTTCAGTAGGTAGAGACCAAGCATCTATCTGATAGAAC
ACATGGAGTGCAATAGGACATTGTGAGAAGGATTTTTTCAGGGATTCACTACTAGTTTAAAAACCCCACTCTGGC
CCTCTTGTCTTTCAGAAAACATGCAAATACCAAGATCCATACAAAACAATAATTTATTCCACTGATCAACCAAG
ACTGGTTCTGGTTGGACAGCTAATCTGATTGTTGGGATTCACTGTTTCAGAGGACACAGACAAAAGCTGTTGCATC
AAAAGTGGACTTTAGGAGTAATTTCTATTGAACCTCTGTCAATATGTTTATTTCTCTGTCTACAGCAGATGGGA
GTCTTCTCTTTTAGACAGGGGCTTTTTGTTTTTAACCCCAATTGTAATAAAGGTGTTCTTTTTCTCTTTAGAA
AAAAAAAAAAAAAAAAAAAA

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FIGURE 2207

MQTPEVPAERSPRRRRSISGTSTSEKPNMMDTANTSPFKVPGFFSKRLKGSIKRTKSQSKLDRNTSFRLPSLRSTD
DRSRGLPKLKESRSHESSLSPCSTVECLDLGRGEPVSVKPLHSSILGQDFCFEVTYLSGSKCFSCNSASERDKWM
ENLRRTVQPNKDNCRRAENVRLWIIIEAKDLAPKKKYFCELCLDDTLFARTTSKTKADNIFWGEHFEFFSLPPLH
SITVHIYKDVEKKKKKKDKNNYVGLVNIPTASVTGRQFVEKWYPVSTPTPNKGKTGGPSIRIKSRFQTITILPMEQ
YKEFAEFVTSNYTMLCSVLEPVISVRNKEELACALVHILQSTGRAKDFLTDLVMSEVDRCGEHDLIFRENTIAT
KSIEEYLKLVGQQYLHDALGEFIKALYESDENCEVDPSKCSSSELIDHQSNLKMCCELAFCKIINSYCVFPRELK
EVFASWKQQCLNRGKQDISERLISASLFLRFLCPAIMSPSLFNLMQEYPDDRTSRTLTLIAKVIQNLANFAKFGN
KEEYMAFMNDFLEHEWGGMKRFLEISNPDTISNTPGFDGYIDLGRELSVLHSLLEWVVSQLDKGENSEFLQATVA
KLGPLPRVLADITKSLTNPTPIQQQLRRFTEHNSSPNVSGSLSSGLQKIFEDPTDSDLHKLKSPSQDNTDSYFRG
KTLLLVQQASSQSMTYSEKDERESSLPNGRSVSLMDLQDTHAAQVEHASVMLDVP IRLTGSQLSITQVASIKQLR
ETQSTPQSAPQVRRPLHPALNQPGGLQPLSFQNPVYHLNPNIPAMPKASIDSSLENLSTASSRSQSNSSEDFKLSG
PSNSSMEDFTKRSTQSEDFSRHTVPDRHIPLALPRQNSTGQAQIRKVDQGGLGARAKAPPSLPHSASLRSTGSM
SVVSAALVAEPVQNGSRSRQQSSSSRESPVKVRAIQRQQTQQVQSPVDSATMSPVERTAAWVLNNGQYEEEDVEE
TEQNLDEAKHAEKYEQEITKLKERLRVSSRRLEEYERRLLVQEQQMQLLLEYKARLEDSEERLRRQQEEKDSQM
KSIISRLMAVEEELKKDHAEMQAVIDAKQKIIDAQEKRIVSLDSANTRLMSALTQVKERYSMQVRNGISPTNPTK
LSITENGEFKNSSC

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FIGURE 2208

AGACCCGACGCCCCGGGGTCCTCGAAGACGCGTCCGCCGCCGTGCCCGTCGCC**ATGA**ACCGCTTCAGGGTGTCCAA
GTTCCGGCACACCGAGGCTCGGCCGCCCCGCCGCGAGTCCTGGATCAGTGACATTTCGAGCAGGAACCGCCCCCTTC
ATGCAGGAACCATCAAATCAAGCTGCAGCTTGATCGCCTTCAACTCCGACCGTCCTGGTGTACTGGGCATTGT
GCCTCTGCAAGGCCAAGGAGAGGACAAGCGACGCGTGGCCCCACCTGGGCTGCCATTTCAGACCTAGTACCGGACTT
GGACTTCTCGCCCTTTGATGACTTCCTCCTGGCCACAGGCTCGGCTGACAGGACGGTAAACTCTGGCGACTGCC
AGGGCCTGGCCAGGCCCTGCCCTCAGCACCCGGGGTGGTGTCTGGGCCCCGAGGACCTCCCAGTGGAGGTACTGCA
GTTCCACCCCCACCTCTGACGGCATTCTGGTGAGCGCAGCAGGCACCACTGTGAAGGTCTGGGACGCAGCCAAGCA
GCAGCCCCCTGACAGAGCTGGCAGCCCATGGGGACCTGGTGCAGAGCGCCGTCTGGAGCCGAGATGGAGCCCTGGT
GGGCACGGCGTGCAAGGACAAGCAGCTGCGGATCTTTGACCCCCAGAACAAGCCGCGGGCCTCTCAGAGCACGCA
GGCCCATGAGAACAGCAGGGATAGCCGGCTGGCATGGATGGGCACCTGGGAGCACCTTGTGTCTACTGGATTCAA
CCAGATGCGTGAGCGCGAAGTGAAGCTGTGGGACACGCGGTTCTTCTCCAGCGCCCTGGCCTCCCTCACCTTGGA
CACCTCGCTTGGGTGTCTCGTGCCCTCTGCTGGACCTGACTCTGGGCTCCTGGTCTGGCAGGAAAGGGCGAGAG
GCAGCTGTACTGTTACGAGGTGGTCCCGCAGCAGCCGGCGCTGAGCCCAGTGACCCAGTGTGTCTGGAGAGCGT
GCTGCGTGGGGCTGCCCTTGTGCCCGGCGAGGCGCTGGCCGTCATGGGCTGCGAGGTACTCCGCGTCTACAGCT
GAGCGACACAGCCATCGTGCCCATCGGCTACCATGTGCCCGCAAGGCTGTGGAGTTCCACGAGGACCTGTTCCC
GGACACTGCCGGCTGTGTGCCCTGCCACCGACCCCCATGGCTGGTGGGCTGGGGACAACCAGCAGGTGCAGAAGGT
CAGCCTCAACCCCGCCTGCCGGCCCCACCCGAGCTTCACTTCTGTCTGGTGGCCCCCTGCGGAGCCCCCTCCCTGA
CACAGCCCAGCCTGCGGTGATGGAGACACCCGTGGGTGATGCAGACGCAAGCGAGGGTTTTCTTCTCCCTCCCAG
TTCGCTGACCTCGCCCTCCACGCCCTCCAGCCTGGGGCCCTCACTCTCCAGCACCACTGGCATCGGGACCAGCCC
CAGTTTGAGGTGCGTGCAGAGCCTGCTGGGCCCCAGTTCCAAGTTCCGCCATGCTCAGGGCACTGTCTGCACCG
AGACAGCCACATCACCAACCTCAAGGGGCTCAACCTCACACACCTGGTGAGAGTGACGGCTTCTGTGCCAACAA
GCTGCGTGTGGCCGTGCCGCTGCTCAGCAGCGGGGGACAGGTGGCTGTGCTTGAGCTACGGAAGCCTGGCCGCCCT
GCCCCGACACGGCACTGCCACGCTGCAGAATGGGGCAGCTGTGACTGATCTGGCCTGGGACCCCTTTGACCCCCA
TCGCCTCGCTGTGGCTGGTGAGGACGCCAGGATCCGACTGTGGCGGGTACCCGCAGAGGGCCTGGAAGAGGTGCT
CACCACGCCAGAGACTGTGCTCACAGGCCACACGGAGAAGATCTGCTCCCTGCGCTTCCACCCACTGGCAGCCAA
TGCTGCTGGCCTCGTCTCTCTATGACCTCACTGTTTCGCATCTGGGACCTTCAGGCTGGAGCTGATCGGCTGAAGCT
GCAGGGCCACCAAGACCAGATCTTCAGCCTGGCCTGGAGTCTGATGGGCAGCAGCTGGCCACTGTCTGCAAGGA
TGGGCGTGTGCGGGTCTACAGGCCCGGAGTGGCCCTGAGCCCCCTGCAGGAAGGCCCCAGGGCCCCAAGGGAGGACG
CGGAGCTCGCATTTGTCTGGGTATGTGATGGTTCGCTGTCTGCTGGTGTCTGGCTTTGACAGCCAAAGTGAGCGCCA
GCTGCTCCTATATGAAGCTGAGGCCCTGGCCGGCGGACCCCTTGGCAGTGTGGGCTGGACGTGGCTCCCTCAAC
CCTGCTGCCCAGCTACGACCCAGACACTGGCCTGGTGTCTCTGACCGGCAAGGGCGACACCCGTGTATTCTGTGA
CGAGCTGCTCCCCGAGTCCCTTTTCTTCTGGAGTGCAACAGCTTCACGTCGCTGACCCCCACAAGGGCCTCGT
CCTCCTGCCTAAGACGGAGTGCAGCTGCGGGAAGTGGAGCTGATGCGGTGCCTGCGGCTGCGTCACTCCTCCCT
GGAGCCTGTGGCCTTCCGGCTGCCCCGAGTCCGGAAGAGTTCTTCCAGGATGACGTGTTCCAGACACGGCTGT
GATCTGGGAGCCTGTGCTCAGTGCCGAGGCCTGGCTGCAAGGCACTAATGGGCAGCCCTGGCTTCTCAGCCTGCA
GCCTCCTGACATGAGCCCAGTGAGCCAAGCCCCCGAGAGGCCCTGCTCGTCGGGCCCCATCCTCAGCGCAGTA
CCTGGAAGAAAAGTCTGACCAGCAAAAGAAGGAGGAGCTGCTGAATGCCATGGTGGCAAAACTGGGGAACCGGA
GGACCCACTCCCCAGGACTCCTTTGAAGGCGTGGACGAGGACGAGTGGGAC**TAGC**CTGCGCCCCCGTCACCTCC
ACCTCACCTGTGCTGCCACTTCTAGTGACACCTCACGGCTCATCTCAAGCTGGAAGATACCTCTCTGGCCCC
GGCAGATGTCACCCCTGCACTCCTGCCTTCCCGTGGGCACCTCCACATCCTCTGGGCCTCTGGCAGTTCACAGG
ACTGTTTTACCTCTGCTGTCTCTGGGGTCAGCTGCTGCTCATCAGCTGCCGCTAGCATGTGGCCAGGGGTGCA
GGGTGGCGGGGGTTCAGCAGCATGTCCCTGGGCAGGCCCTGGGCACCCCTGTCTCCCTGGTCTCACTGCTGACCT
GGGCTGGTCCCAGCCTGGATTGGCCTCATCCAGGATCTTTGGTCACCCCACGCTGCCCCATCTTGCTGCTGTTT
CAGTTCTGGTCAAGGGCCTTGGGGGCTGGCCCCCACCAGGCCTTCTAGAGCAGCACCAGTCTCAGGGCCCTGGG
ACCAGCTGCCCTACTTCCCAGGTTTGTAGCCAGGAGAAGGGGGCATCACAGAGCTGATGGTCCAATAAGGGGGGT
GTGAGCCCCGAGGGACTGGCCCGCACCTGCCTTGGATGTTTTTCAGCAATTAAACTTTTTTAAGCTGGCAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2209

MNRFRVSKFRHTEARPPRRRESWISDIRAGTAPSCRNHIKSSCSLIAFNSDRPGVLGIVPLQGQGEDKRRVAHLGC
HSDLVTDLDFSPFDDFLLATGSADRTVKLWRLPGPGQALPSAPGVVLGPELDPVEVLQFHPTSDGILVSAAGTTV
KVWDAAKQQPLTELA AHGDLVQSAVWSRDGALVGTACKDKQLRIFDPRTKPRASQSTQAHENSRDSRLAWMGWE
HLVSTGFNQMREREVKLWDTRFFSSALASLTLDTSLGCLVPLLDPD SGLLVLAGKGERQLYCYEVVPQQPALSPV
TQCVLESVL RGAALVPRQALAVMGCEVLRVLQLSDTAIVPIGYHVPRKAVEFHEDLFPDTAGCVPATDPHGWWAG
DNQQVQKVSLNPACRPHPSFTSCLVPPAEPLPDTAQPAVMETPVGDADASEGFSSPPSSLTSPSTPSSLGPSLSS
TSGIGTSPSLRSLQSL LGPSSKFRHAQGTVLHRDSHITNLKGLNLTPGESDGF CANKLRVAVPLLSSGGQVAVL
ELRKPGRLPDTALPTLQNGAAVTDLAWDPFDPHRLAVAGEDARIRLWRVPAEGLEEVLTTPETVLTGHTEKICSL
RFHPLAANVLASSSYDLTVRIWDLQAGADRLKLQGHQDQIFSLAWSPDGQQLATVCKDGRVRVYRPRSGPEPLQE
GPGPKGGRGARIVWCDGRCLLVSGFDSQSERQLLLYEAEALAGGPLAVLGLDVAPSTLLPSYDPDTGLVLLTGK
GDIRVFLYELLPE SPFFLECNSFTSPDPHKGLVLLPKTECDVREVELMRCLRLRQSSLEPVAFRLPRVRKEFFQD
DVFPDTAVIWE PVLSAEAWLQGTNGQPWLLSLQPPDMSPVSQAPREAPARRAPSSAQYLEEKSDQQKEELNAM
VAKLGNREDPLPQDSFEGVDEDEWD

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FIGURE 2210

CAGTGCTGCGGGCTCCGGGCAATGGATGCCCCCGGGGCCCTGGCCCAGACCGCCGCCCCCGGTCCGGGCAGGAAG
GAGCTGAAGATCGTGATCGTGGGCGACGGCGGCTGCGGCAAGACCTCGCTGCTCATGGTGTACAGCCAGGGCTCC
TTCCCCGAGCACTACGCCCCATCGGTGTTTCGAGAAGTACACGGCCAGCGTGACCGTTGGCAGCAAGGAGGTGACC
CTGAACCTCTACGACACGGCCGGGCAAGAAGACTATGACCGGCTGCGGCCCCCTGTCTTACCAGAACACCCACCTC
GTGCTCATCTGCTATGACGTCATGAATCCCACCAGCTACGACAACGTCTCATCAAGTGGTTCCTTGAGGTACAG
CATTTCTGCCGCGGGATCCCCATGGTGCTCATCGGCTGCAAGACAGACCTGAGGAAGGACAAGGAGCAGCCGCGG
AAGCTCCGGGCGCGCCAGCTGGAGCCCATCACCTACATGCAGGGCCTGAGCGCCTGCGAACAGATCCGAGCTGCT
CTCTACCTGGAATGTTCCGCCAAGTTTCGGGAGAATGTGGAGGACGTCTTCCGGGAGGCCGCCAAGGTGGCTCTC
AGCGCTCTGAAGAAGGCGCAACGGCAGAAGAAGCGCCGGCCCTGCCTGCTGCTCTGAACCCAGGGCAGACAGACCT
CACGACAGCACTGACAGGGCCCCGGGGGCCAGGTGCCGATTGCACAGGGGAGGCTGCCCATCCCGACCTCCAG
CTCATGGTGTCTGGGGCCTGCGGCTAGACTCTTGGAACATTCTGGAACCTCTCTCCTTTCCTGGCTGGGGCTCTGA
CCACAAACTCCCCTCCAGGCTGCCCTGGGACATGGTGGTGATGTGGGTGCAGGAGCCAGTGTCTGTTGTGCGGA
CTCGCAAGTGCCCTCATCACAGCCACCCCCACCACGAGTGTCTCCCCAGTGCAGACTCAAGTTATGCTTGAAATG
AAAAAGTCTATCTGGTAGTGGGTAAACGTAGACCTGGCACTGTTCCACGCGGGCGCCCCAAGCCTGCCACTCCTG
TGTCCCTGCCTCCCTGGGCTCCCGAGATAGGCACCACTGTATCCTCCAGCTCCTTCCTTCCTTCCCCCAGGAACA
CGGAGGCCACCGAGGGGGCTGGGCCTATCAGGAGGACACAGGCTGCAGCCTGGCACCCACCCCTCCCATCTCCAC
CCCACATGGAAGACTTGTCTTCAACTTGGCCACTGTCTTTGCAGAGCTGGGCACATGTGCCCAGGGGGCAGAAAA
AATGGCTTCTCAGTTGTTAAAAGTATACCCTGGACCACCCATCTGACCATCTCCTTAAGGTTTCACCCAAAGCCC
CCAGTGTGAGAGACTTGGGATGGGAAGAAGAGTCGGCTCCCAGTGTGGTCATGAGCAAGTTTTCTGTGGACTGTT
CCCCCACTGCGGCAGGACAGGACTGGCCCACTTAGTCTCAAGCTCCCAACCTGCTGTCCCTCAAGCCCCGCTT
CTACCAGCCTGTGGAGTTCAGGAGGCGAGACATCCTGGCCTCCTTTGAGAACTGATGGGATCTACCCCTGTCCA
CGCGGGACAGTTTCTCAGAACTGGTTCATAGACCACCTGTGTACCAACAGCCAGATACCTAATCCCTGAGCCTC
CTTTGGGAAGGTCTGGGGCCGAGGGTCTGGGAATTTTTTTTTTTTTTTTTTTTTTTGGGACAGAGTCTCATTCTG
TCACTCAGGCTAGAGTGCAGTGGCATGATCTTGCTCACTGCAAGCTCCACCTCCTGGGTTCAGCGATTCTCTT
GCCTCAGCCTCCTGAGTAGCTGGGACTACATGCGCACACCACCGTCCGGCTAATTTTTGTATTTTTTAGTAGAG
ACAGGGTTTCACCATGTTGGCCAGGCTGGTCTTGAACCTCGACCTCGTGATCCACCCGCCTTAGCCTCCCAAAG
TGCTGGGATTACAGGCGTGAGCCACCGTGCCCGGCCAGGACTTTAAAACAAGCATCCCAGGGGATTCCGGTGC
CCACCAGAAGTCGCAAGCTGCTTGGCTCTGGAGGGCGCCTAGGAGTCGGTGTGCGCTAAGATGGGATAATGGCTT
CAGGCAACTCCCAGCCTTCCCCATATCTCCTGCCTCAGCCCCCTGGCCCAGTGCTGGGGCGTCAGCTAAACCTG
AGCTTCCAAGAAGTCAGTTGCCAAAGGAAGAAGCCTTCTGAGACCTCCCCAACCCACCCAGGTTCCCAAGGCC
CTGCCGTACCCTGGGGAAATCAACCAAGGAGTTCTTGTTCTCGAAGAACCCAGGCCTCATGATGGTCTACGGTAG
AGGTCCAACAACCTACAGCCTGTGGGCCACATCTGGCCACAGCCTGATTTGTAAATAAAGTTTTATTGGAACACAA
AAAAAAAAAAAAAAAAAAAAA

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FIGURE 2211

MDAPGALAQTAAPGPGRKELKIVIVGDGGCGKTSLLMVYSQGSFPEHYAPSVFEKYTASVTVGSKEVTLNLYDTA
GQEDYDRLRPLSYQNTHLVLICVDVMNPTSVDNVLKWFPEVTHFCRGIPMVLIGCKTDLRKDKEQPRKLRAAQL
EPITYMQGLSACEQIRAALYLECSAKFRENVEDVFREAAKVALSALKKAQRQKKRRPCLLL

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FIGURE 2212

GTGAGCGCATGTGCGCATTTATGAGCATCTACTTGCGGCTGCACTCAGGGCCATTTGAACCCAGTGCAGAGTTAT
CTCTATGAGGAGGCCCCGGGTCTCCAGCCCCCTCCATCTCCCCTGGGGTTTGGCATATTTGACATGGAGCCCCAT
GCCAAGGGATGCAGCTGTTGGTGTCTGTCCAGTCCATTCAAGGCTAGCCTGCCCATGCACTGTGGCAGGGGTTGG
ATTGGAGGGAGAGAACAGAGTTGGGAAAAACAACAGGTTTGAGTCCTATAAAGCCATAATTTAACTCCAGTAGCT
GATGTCAGACAAGCTTGTCTCT**ATGT**CTCTATTTGAGTGGCAGCAGCGCCAGCCCAGCAAGAAGGCTGGGGGTTGTC
AAGGTTGTCCCCAGACCTTGCTTGCACTGGTTGGGAGAACCCAGGGGGCTGCCTTGGGCCCTCTGGCCAGAGGGAA
GCGGGCAGCTCTAGCCCTGGAGATTGTGGTCACATTGGGGCTTGTTTAGGATTGGAGGGCCAGGTCACCTCCCCA
GCCACCTTCCCTTCTCTCTCTGGGGTCCCCACTTTAGGGCGACTTTGCCCGAGGGCCACGCATCCATCCACTCC
TTTAGTGCCTTGAATCTCATTCAAGCAGCCCCCTCCCTTCCCCTTCCCTTCTCACTCTGTTGATGTAATCCTC
CCACCCCCAGTGTCCATCCTAAGACAGGCATCAAAAGAGGCCCTAACTTTACTTCCCAAATGGTGCTTTTTAAAA
AACACCATCACTACATTAGGGGCAATTTTTTTCACACCTCCCTGTCTTCAGAATG**TAA**AGGGTGGGGATTATGTCT
CTGTTTAATATGCAGCCCCCTGCACTGTGGGGTTTGGGGCATGTTTCAGTAATAAGAATGAATACAATAGACAAAG
GGGGTGTGATGAGTGTTAACTTGTTTCCAGAGGTAAACCAGGTCTCAGGGAAGAGCCTGGAGCTGCTATTGC
TTAGGAAGTTGTACGTGCCTTGAAATGTCCACTACCTGAGGACGCAGCATCTGGTGGGCCCCGGGGCTGCTGGGGC
CAAGGAGGGACCTTGACCTTCTGGTGCCTGCCCCCTCCCCGGCCTACGTGCCATCCGCGTGACGCTAGGTCAGCGC
TGCCGGTTCTTTACCAAATGTGCTTGCTTCTCTAAGTTATTTATAAAGAGAAATCACTAATGGACTCTACTGGT
TTGAGTGCTTCTGAGCTGGATGACCGACCGCCTGTATGTTTGTGTAATTAATTGCCATAATAAACTTTGATGAGT
CAAAAAAAAAAAAAA

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FIGURE 2213

MSYLSGSSASPARRLGVVKVVPRPCLQWLENPGGCLGPSGQREAGSSSPGDCGHIGACLGLEGQVTSPATLPSLL
WGPFRATLPEAHASIHFSALNLIHKQPPFPFSPSHSVDVILPPVVSILRQASKEALTLLPKWCFLKNTITTLG
AIFSHLPVFRM

2496/2825
FIGURE 2214

CGGGACGCGG**ATG**CAGACGCAGGCGGAGGCGCTGACGGCGGGGATGGCCGGGGTGGCCACAGCTGCCGCGGGGGC
GTGGACACAGCCGCAGCTCCGGCCGGTGGAGCTCCCCAGCGCACGCGCCAGGTCCGGGCAGAGACGCCGCGTCT
GCCGCAGGGGGTCACGAATGCGGCCGCACATATTCACCCTCAGCGTGCCTTTCCCGACCCCTTGGAGGCGGAAA
TCGCCCATGGGTCCCTGGCACCAGATGCCGAGCCCCACCAAAGGGTGGTTGGGAAGGATCTCACAGTGAGTGGCA
GGATCCTGGTCGTCCGCTGGAAAGC**TGA**AAGACTGTCGCCTGCTCCGAATTTCCGTCATCAACTTTCTTGACCAGC
TTTCCCTGGTGGTGC GGACCATGCAGCGCTTTGGGCCCCCGTTTCCCGCTAAGCCTGGCCTGGGCAAATGGAGC
GAGGTCCCACTTTGCGTCTCCTTG TAGGCAGTGCGTCCATCCTTCCCTAGGGCAGGAATTCCACAGTTGCTACT
TTCCTGGGAGGGCCTCATGTTTTATCTGGTTCCTTAAATGTTTGTTACTACAGAAAATAAACTGAGGTATTATT

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FIGURE 2215

MQTQAEALTAGMAGVATAAAGAWTQPQLRPVELPQRTQVRAETPRLPQGVNTNAAAHIHQRAFPDPLGGGNRPW
VPGTRCRAPPKGGWEGSHSEWQDPGRPLES

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FIGURE 2216

GAATGGAATGAAAAGCCTTGTACAAGAGGCTTCGTGCCATGTTTCAGCCTGCCCCCTTAGCCTTCCACTGTGTGAGG
ACACAGCATTCCTTCCCTTCCAAGTGCTGCAGCTCTCACAAGACAATCAAACAAGCCCGCACCTTGATCATGATCT
TCCTAGCCTCCGGAACGCACCTTTAGACCATGCTGAAGTCTAAATTGAATGTCTTAACACTGAAAAAGGAACCTC
TCCCAGCGGTCATCTTCCATGAGCCGGAGGCCATTGAGCTGTGCACGACCACACCGCTGATGAAGACAAGGACTC
ACAGTGGCTGCAAGCACTTTAGACCATGCTGAAGTCTAAATTGAATGTCTTAACACTGAAAAAGGAACCTCTCC
CAGCGGTCATCTTCCATGAGCCGGAGGCCATTGAGCTGTGCACGACCACACCGCTGATGAAGACAAGGACTCACA
GTGGCTGCAAGGTTACCTACCTGGGCAAAGTCTCCACCACTGGCATGCAGTTTTTGTGAGGCTGCACAGAAAAGC
CAGTCATTGAGCTCTGGAAGAAGCACACGCTAGCCCGAGAGGATGTCTTCCGGCCAATGCCCTCTGGAAATCC
GGCCATTCCAAGTTTGGCTCCATCATCTCGACCACAAAGGGGAGGCCACAGTGCACATGGATACCTTCCAGGTGG
CCCGCATCGCCTACTGCACCGCCGACCACAACGTGAGCCCCAACATCTTCGCCTGGGTCTACAGGGAGATCAATG
ATGACCTGTCTTACCAGATGGACTGCCACGCCGTGGAGTGCAGAGCAAGCTCGAGGCCAAGAACTGGCCACG
CCATGATGGAGGCCTTCAAGAACTTTCCACAGTATGAAGAGCGACGGGCGGATCCACAGCAACAGCTCCTCCG
AAGAGGTTTCCAGGAATTGGAATCCGATGATGGCTGGAATGAACCTTGAGACGCTTCAGCAAAGGCAGCATTGGTC
ACGGAGTTCAAGGGAATAGATGAGTAAGCAACGTTTCAAATTTGGGATGAAAAGACTGCCAACTATTGGCTGAC
CAAGGTTTTTAAATTCAAGAGCAATTCTAAATCTAAAGAAATGTATCATTAAAGTAATTACGTTACATTGAAA
CCTGCTGCTGCTGTGACTGTGAGGAGGGTGGGAGTGTGGATGGGGAGGAAGGTTCTAGGCTCTCTTCTTATTTTT
CTCATTTCCCAATGCCTCTCTGTGGGAGAGCTTCATGCCAGTTTTACCACGCTCAGGCAAATACTCTGCAGCTG
TTATTGGATGGGCCATTCCGATCTGCCTTATGAAATTCACAGAATGTTAGGGGCACCCTCTTTCCCTTCTAA
CATCCTTAGAGGGATGAAATCTCAGCATATGTTGCAGGACACCAAAAGGAAGAAAACAATCAAGCAATAAAATA
AACAGTCAAACAAACCAGGAGTTTAAACAACAACCCCAACAACAGAAGCCTTGGCAAAGAGGAATAAGTGATCA
GCAAGTGAACACACTCTATGTCAACTCTCCTTTTATCCAGCTGAGATTTATGGTAACCTTATTTAATTAATGGTCC
TGTCTGATGCATCCTTGATGGCAAGCTTCAAATCTGATTTGGTATCACCGAGGAAACCTTGCCCCATCACTCAG
CATTGCACTTAGATACAGAATGAGTTAGATAAACTTGGCTTGTCTAGAGACCATGTCATCTTAACCTAAAGGGA
AATCTTATTGCGTTATCATAAAATTGATGATATCTTAGGGTCAGAATTGCCCTTTTTTTTATTTTGAATGGGAAG
CTCTCACTAAAACAATCCTGAGATTTCTTAATTTTCATGGTTCTTTAAATATTATAAACACAGAGTCAACATAGAA
TGAAATTGTATTTGTTAAATAACACACATTGGAGGACAAGAGCAGATGACTACTTTTCGAAGTAATGCTGCTCCT
TCCTAAAAGTCTGTTTTCAATCCTGGTAATATTAGGGGCACTGCGGCACCTAAGAAGCCTTAAATGAGAGCTAAT
CCAATTTAGAGAGCGATGGTGTGAGCATTTCGGTCTGCATATCTGTGTGTCCGTATCTGCGTTTGTGTGCGTGTA
CGTGTGCCCCGTGTGTGTTGGGCCAGTTTTTCAGGCATGTAGAATAAGCATGGAGTCATATTGAGGAGGACTCACTT
CTTGAAGATATGCTTGTGCTTTACAACATATGTAAGCTATTCTTTAGCATAAATGCATTTCATTCTTTAATAAAA
ATATGTTTGCATTAAAAA

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FIGURE 2217

MFSLPLSLPLCEDTAFILPSKCCSSHKTIKQARTLIMIFLASGTHFQTMLKSKLNVLTLLKKEPLPAVIFHEPEAIE
LCTTTPLMKTRTHSGCKHFQTMLKSKLNVLTLLKKEPLPAVIFHEPEAIELCTTTPLMKTRTHSGCKVTYLGKVST
TGMQFLSGCTEKPVIELWKKHTLAREDVFPANALLEIRPFQVWLHHLDDHKGEATVHMDTFQVARIAYCTADHNVS
PNIFAWVYREINDDL SYQMDCHAVECESKLEAKKLAHAMMEAFRKT FHS MKSDGRIHSN SSSEEVSQELESDDG

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FIGURE 2218

GGGGAGGTAGCCCGCAGTGCAGGGGCAGCGCGGCGCGGGGCCACCGACGGGACGCGGCTCCGGGAACATGGCTCG
CTTCGCTCTGACTGTTGTCCGGCATGGAGAAACAAGATTTAACAAGGAGAAAATAATCCAAGGACAAGGAGTAGA
TGAACCTCTTTTCAGAACTGGATTTAAACAAGCAGCAGCTGCTGGTATATTTCTGAATAATGTGAAGTTTACTCA
TGCTTTCTCCAGTGATCTCATGAGGACAAAGCAGACCATGCATGGAATTTTGGAGAGAAGCAAATTTTGCAAAGA
TATGACGGTAAAGTATGACTCAAGACTTCGGGAAAGGAAATACGGGGTTGTAGAAGGCAAAGCGCTAAGTGAGCT
GAGGGCCATGGCCAAAGCAGCCAGGGAAAGAGTGCCCTGTGTTTACACCGCCCGGAGGAGAGACGCTGGACCAGGT
GAAAATGCGTGGAATAGACTTTTTTGAATTTCTTTGTCAACTAATCCTGAAAGAAGCGGATCAAAAAGAACAGTT
TTCCCAAGGATCTCCAAGCAACTGTCTGGAACTTCTTTGGCAGAGATATTTCTTTAGGAAAAAATCACAGCTC
TAAAGTTAATTCAGACAGCGGTATTCCAGGATTAGCAGCCAGTGTCTTAGTTGTGAGTCACGGTGCTTACATGAG
AAGTCTGTTTGATTATTTTCTGACTGACCTTAAGTGTTTCCTTACCAGCCACTCTGAGCAGATCTGAACCTATGTC
AGTCACTCCCAATACAGGGATGAGTCTCTTTATCATAACTTTGAGGAAGGAAGAGAAGTTAAACCAACGGTTCA
GTGTATTTGTATGAACCTACAGGATCATCTAAATGGACTGACTGAAACTCGCTTAAGGTTAAATCTGCATCAAAAT
CTAACCAATTTGAGCCTCTGAAGGGAGTGCCATTGGCTTTATTTACTTCTCTCCTCTGCTAGTCTTGATTGGA
ACAGTTAAAAGCCAATTTTTAGCTCCAGTGGAACCATAGCCACATAAACTTTAATGGACAACCATATAGAATTA
ACTTATTTTGTCCAAGTACAGTTGGCATTTCAGAAATAATTTTACCACCCTGCTAGATGTCATCTCTGGATTGC
ACATGGATGATGAAGGAACCTCAGCATTGAAAGTTGGGGGATTAGTAACCTTGTTACAACGGTTTCTTTTTCATTT
TAGCCTATTTTAAATGGCTATTGGTAAGATACTGTATGTTTTTAGTATCTCATCCAGTGCTTAGAAGAAAGAATGG
TTTATAATCCCAGTACATGTTTATATTGACTGTGTTATATTTTTAAATCCTTTAAATAAAAAATCCTTATAAGT
TTATGTAAAGC

2501/2825
FIGURE 2219

MARFALTVVRHGETRFNKEKIIQGQGVDEPLSETGFKQAAAAGIFLNNVKFTHAFSSDLMRTKQTMHGILERSKF
CKDMTVKYDSRLRERKYGVVEGKALSELRAMAKAAREECPVFTPPGGETLDQVKMRGIDFFEFLLCQLILKEADQK
EQFSQGSPSNCLETSLAEIFPLGKNHSSKVNSDSGIPGLAASVLVVSHGAYMRSLEFDYFLTDLKCSLPATLSRSE
LMSVTPNTGMSLFIINFEEGREVKPTVQCICMNLQDHLNGLTETR

2502/2825
FIGURE 2220

ACGCGCCTCGGGGAACAGCCTGGCCCAAAGCCTCACTCCTCACGTCCCAGGGGTGGACGGGGGTCCGGGAGCCTC
GAGCTCCGGGCAGGCGTGCGGAGGCTGAAGTCTGGGTCTTCCGCGCCCCGCGAGGACCACGCCGCGACGTAATCG
CCCGCGGGGAGGCGCGGAGTGAGCCGAGCCAGCCCCCTCCCGCACTCTGCTGACCGCGCACTAGCTGTCCTTGA
GGCAAGAATACTTGGGAGCGGAAAAAAGGTGGGGGTGTTCCCCGGGGCGGGGGAGGAGGGGGCAAGGCCCCAGCAA
GCCTCTTGAAATCTCTCCCTGGGAGGGGACGAGGGGCGGCCTTCAGTTGCAAATGGGAAGGGCTCGGATACCGG
ATTTGAAGCAGTGTTTGCACGGCAAGCGCAGCTTTTATTTAGACTGCCGTTTGTGAGGGTTGGCTCTCAGAGCG
CTGATGGCGATTATAGTGGAACCTCACCTTACCTGCTATGCGCCCCGAGCGCGCCCCGCTCCCACGCCCGCGTA
GCTGAGGACCCAGACTCGCCAGGAAAGGCTAGTGAGGCTGGGGCCCCGGGCGGGCCCCGGCCGGGTCAGGGG
AGGGGCCTGGCGGCAGGGGCGGGGCTCAGCTAAAGGCGCGGAGCACCCGGCGCCGAGAGCGCTGAGTAGAGCGG
CGCCCGCTCGAGAGAAGTGGGGCGGAGATCGCGCCGTCCAGCCCCCGCCGCGCTCTGCGCTGCTCCGGCGCC
CTTACCCTTGCTGGCCCTTGCAAGGCGCGACCGGCGGCCATGCAGCCCCGGGGCTGAGGCCGCCCATGGCAAAG
CCGGCGGTCCCGGCGACGACGGCGCATGGAGAACTTCCGTAAGGTGCGCTCCGAAGAGGCGCCAGCGGGGTGCGG
GGCCGAGGGAGGCGGCCCGGGCTCCGGCCCCCTTCGAGACCTGGCGCCGGGCGCGGTGCACATGCGGGTCAAGGA
AGGCAGCAAGATCCGGAACCTGATGGCCTTCGCCACCGCCAGCATGGCGCAGCCAGCCACGCGCGCCATCGTCTT
CAGCGGCTGCGGCCGGGTCAACCACAAAACCGTCACGTGCGCCGAGATCCTCAAGCGCCGCTGGCGGGCCTGCA
CCAGGTCACGCGGCTGCGCTACCGGAGCGTACGCGAGGTGTGGCAGAGCCTCCCGCCTGGGCCCACGCAGGGTCA
GACGCTGGCGAGCCGGCCGCTAGTCTCAGCGTACTTAAGAACGTGCCCGGCTCGCCATCCTACTTTCCAAGGA
CGCGCTGGATCCGCGACAGCCCGGCTACCAGCCCCGAATCCCCATCCTGGTCCCTCGTCCCCGCCAGCCGCGCC
AGCGTCCAAGAGGAGCCTAGGGGAACCCGAGCTGGAGAAGGCTCCGCGAAGCGATCGCAACCCGAGCCAGGGGT
TGCGGACGAGGATCAGACGGCCTTGAAACTCCGGAAGTGTGGGGCCACCTAGTCCGGCAGGATCTTCGCCAGCGCCT
CCACCTTCAGATGTACCTCCAGCCTTTCACTCCTCGGTCTTCCGGAGCCCCACAACCTGGACACAGCTCCTCAAGA
CAGGTAGCATGGACCTTAAGGCGACAAGAGAGGGGCCCCAGGAGTGGCAGGAGAGGATCCCCGACCACCCTAGGG
AACTTCGTGCGATAATTGCTGCTTAIGCCCGTGTTGCGTGAAGACACGGAACTTCACCTTTTCTGGGACCTTCT
TTGGGGGAGAATGGTGGACAGTGGGATTCTGAAACTTGTTTGGGACCCCCAAGGGTTAAAGCCACCCAGCATTC
ACGAAGAGCACCTGAAGTATGGAAGCTGACTTTCTAGTTTTCTTTCCCTGCTTCAGAGGAGCATCTCTGAGGGT
TCTAGCTCTTTTAACACCTCTTTTCCCCCTGCTGGCCAGAGGGAGACCCAGGACTGAACTCTCCAGGCCTCCTC
CCCTGAGCCCTGCAGCTGGCTGGAGTCTTGTTTCCAATAAAACAAGCACAAAAAAAAAAAAAAAAAAAA

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FIGURE 2221

MENFRKVRSEEAPAGCGAEGGGPGSGPFADLAPGAVHMRVKEGSKIRNLMAFATASMAQPATRAIVFSGCGRVTT
KTVTCAEILKRRLAGLHQVTRLRYRSVREVVQSLPPGPTQGQTPGEPAASLSVLKNVPGLAILLSKDALDPRQPG
YQPPNPHPGPSSPPAAPASKRSLGEPAAGEGSAKRSQPEPGVADEDQTA

[illegible]

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FIGURE 2223

MAKERRRAVLELLQRPGNARCADCGAPDPDWASYTLGVFICLSCSGIHRNIPQVSKVKSVRDLDAWEEAQVEFMAS
HGNDAAARARFESKVP SFYYRPTPSDCQLLREQWIRAKYERQEFIYPEKQEPYSAGYREGFLWKRGRDNGQFLSRK
FVLTEREGALKYFNRNDAKEPKAVMKIEHLNATFQPAKIGHPHGLQVTYLKDNSTRNIFIYHEDGKEIVDWFNAL
RAARFHYLQVAFPGASDADLVPKLSRNYLKEGYMEKTGPKQTEGFRKRWFTMDDRRLMYFKDPLDAFARGEVFIG
SKESGYTVLHGFPFPSTQGHHPHGITIVTPDRKFLFACETESDQREWVAAFQKAVDRPMLPQEYAVEAHFKHKP

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FIGURE 2224

AGAGTCGGGTAGACGGCAGCGGGAGCGGTGGCGTCTCCCCGCCCTTCCCTCCCTCCCGGGCCTGGGCGCCCAGCCG
GACAGGTGAGCGGCAGCCAGGTGAGCGCGCCACCTGCGCCTCTCCGCGCGGCCCCGCCCTCCCCGGCGCCGGGCT
CCTCTCCGCGCCCCCTGTGCGCGCGGAACCCTGGCCTCGTCCGCGGCCAGCTCCCTGGAGCCTCGCATCAGCGGG
GGCGCCCCCGGAGCTGCGCTCTCCCCGGCCGGAGCGCTCCTCCTCCAGCCCCCAGCCCGCAGGGTACTTTGCC
TCGGAGCGAAGGAGGCTCCAGAAGTGGTAGAGCCGGGCCATCGGGCTGGGCACCTCCCCGCGGCGCCCGCAGCGC
GGAGTCCACTGACCGGCTCAAAGGT**ATG**CGGTTGACGGTGGATGTGGCCGGGCCAGCGCCCTGGGGCTTCCGTAT
CACAGGGGGCAGGGATTTCCACACGCCCATCATGGTACTAAGGTGGCCGAGCGGGGCAAAGCCAAGGACGCTGA
CCTCCGGCCTGGAGACATAATCGTGGCCATCAACGGGGAAAGCGCGGAGGGCATGCTGCATGCCGAGGCCAGAG
CAAGATCCGCCAGAGCCCCCTCGCCCCTGCGGCTGCAGCTGGACCGGTCTCAGGCTACGTCTCCAGGGCAGACCAA
TGGGGACAGCTCCTTGGAAGTGCTGGCGACTCGCTTCCAGGGCTCCGTGAGGACATACTGAGAGTCAGTCCTC
CTTAAGGTCCCTCCTACTCCAGCCCAACCTCCCTCAGCCCGAGGGCCGGCAGCCCCCTTCTCACCACCACCTCTAG
CAGCTCCCTCACTGGAGAGGCGGCCATCAGCCGCAGCTTCCAGAGTCTGGCATGTTCCCCGGGCTCCCCGCTGC
TGACCGCCTGTCTACTCAGGCCGCCCTGGAAGCCGACAGGCCGGCCTCGGCCGCGCTGGCGACTCGGCGGTGCT
GGTGCTGCCGCCCTTCCCCGGGCCCTCGTTCCCTCCAGGCCCAGCATGGACTCGGAAGGGGGAAGCCTCCTCCTGGA
CGAGGACTCGGAAGTCTTCAAGATGCTGCAGGAAAAATCGCGAGGGACGGGCGGCCCCCGACAGTCCAGCTCCTT
TCGGCTCTTGCAAGGAAGCCCTGGAGGCTGAGGAGAGAGGTGGCACGCCAGCCTTCTTGCCAGCTCACTGAGCCC
CCAGTCCTCCCTGCCCCGCTCCAGGGCCCTGGCCACCCCTCCCAAGCTCCACACTTGTGAGAAGTGCAGTACCAG
CATCGCGAACCAGGCTGTGCGCATCCAGGAGGGCCGGTACCGCCACCCCGGCTGCTACACCTGTGCCGACTGTGG
GCTGAACCTGAAGATGCGCGGGCACTTCTGGGTGGGTGACGAGCTGTACTGTGAGAAGCATGCCCGCCAGCGCTA
CTCCGCACCTGCCACCTCAGCTCTCGGGCCT**TGAG**CCCCGCCATGCCCTCAGCCTGCCTCACTGCTGGGCCAGGGT
CATGCCTATATAAGTTGGCATGGCAGGGACAATGGTGGGCAGTTGCTCTTACATGAGCTAAGTTTGGAGACCTGA
GGCCCCTTTGTCTCGCTGGGTGGGCCAAGGTCTGGGACCTGTCTTGACTGTGGGAGACTCACCCCTACCTTGC
CAGGCCTCTCCCTGCAGGACTGGCATTGCACTAGTCTGAGGTGGCCACTGCCTTTGATCAACCTTTGTGTGCGA
GGGTCTAAGTAGGGTCGAACACAGAAGTGGGAAGGAGAGGGGTGGGCCAGGGGCTAATGGTGTCACTGTGTAAAG
TTTTTGACATACTAGCTCTATAAATATATGAATATGGACAAAAT

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FIGURE 2225

MALTVDVAGPAPWGFRIITGGRDFHTPIMVTKVAERGKAKDADLRPGDIIVAINGESAEGMLHAEAQSKIRQSPSP
LRLQLDRSQATSPGQTNGDSSLEVLATRFQGSVRTYTESQSSLRSSYSSTSLSPRAGSPFSPPPSSSSLTGEAA
ISRSFQSLACSPGLPAADRLSYSGRPGSRQAGLGRAGDSAVLVLPSPGPRSSRP SMDSEGGSLLLDEDSEVFKM
LQENREGRAAPRQSSSFRLLEALEAEERGTPAFLPSSLSPQSSLPASRALATPPKLHTCEKCSTSIANQAVRI
QEGRYRHPGCYTCADCGLNLKMRGHFWVGDELYCEKHARQRY SAPATLSSRA

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FIGURE 2226A

CGCGCCCCGGGCTCGGCCGACCCGGCGGGGATCTAGGGGTGGGCGACTTCGCGGGACCGTGCGCATGTTTCCTG
GGAGTTACTGATCATCTTCTTTGAAGAAACATGAAGTTACACTATGTTGCTGTGCTTACTCTAGCCATCCTGATG
TTCCTGACATGGCTTCCAGAATCACTGAGCTGTAACAAAGCACTCTGTGCTAGTGATGTGAGCAAATGCCTCATT
CAGGAGCTCTGCCAGTGCCGGCCGGGAGAAGGCAATTGCTCCTGCTGTAAGGAGTGCATGCTGTGTCTTGGGGCC
CTTTGGGACGAGTGCTGTGACTGTGTTGGTATGTGTAATCCTCGAAATTATAGTGACACACCTCCAACCTCAAAG
AGCACAGTGGAGGAGCTGCATGAACCGATCCCTTCTCTCTTCCGGGCACTCACAGAAGGAGATACTCAGTTGAAT
TGGAACATCGTTTCTTTCCCTGTTGCAGAAGAACTTTCACATCATGAGAATCTGGTTTCATTTTTAGAACTGTG
AACCAGCCACACCACCAGAATGTGTCTGTCCCCAGCAATAATGTTACGCGCCTTATTCCAGTGACAAAGAACAC
ATGTGTACTGTGGTTTATTTTGATGACTGCATGTCCATACATCAGTGTAATAATATCCTGTGAGTCCATGGGAGCA
TCCAAATATCGCTGGTTTCATAATGCCTGCTGCGAGTGCATTGGTCCAGAATGTATTGACTATGGTAGTAAACT
GTCAAATGTATGAAGTGCATGTTTTAAAGAAGACAAATGCAAACCAAAGCAACTTAGTAAATAATAGGTATAAA
AAGTTATTCTGTAAGTCTGTTGGTTGTATCTTGTATCAGAATCCAGTAAGTTAAGTTGTAAAGACTTTGGAATA
AGTTTCTTTTAAAAATATGACATAGCCAGTGATGTGTTAATTATATAACTGTTCTTACTGATTTTATTGCCCCC
TAGCAATAAGCCCTTTTCTTTGAATACATGTACAACCTTTGGTCATATGAGAAGCAGGTGCGCAGAGAATTCTTG
AAAGATCTGAGGTTTTTAACATAAAGTCTGATGTGGTTTTCTCTAGCATTCCAAAAGGTTTTTGCTTTGAAAGT
GTTAGCAGAAGCATGTTGATGTGAATTATGATTTCTTCATGTGCTACTGTTAGCACACTGAGTTTTTATAGTTGC
ACATCATTTCTCATTGTGCCTTGTTTTATCCATTTTATAAATAGAGTAGATATTTGATATACCCTCTGATAACT
CATATAAAAATATCATCATAAAAAGCTTAATTTTCATCCCTTTTATGTTGGTTTTTAAAGGTAAATGCTTACCATA
TTTTATAATTGAGAACTCTTACATAGTAGAATCCATTCTATAATACATGTGTTGACAAAGCTTTAGAGAAAGTTT
CCTATTCTCTTCCATTTCCCTTGCCCAAAGTGCTGACATAGGCAGTGATGAAGAATCTTTACCAAGATTTTCAGG
GTGTACCTATGAAATTGCTTTAAATGCACTGCTGGTGTAATAATTAGCAAGCAAAGCGTTTCTGTGACTTCAG
GTACCAGCTTAAAGAGCACTAGGGATGGGGAACGAATGCCAAATCAGACTCCACCTAGAGCACCAGGAAACAGCT
TGTAACCTGGTAGGGAAATGGTGTGCTGAAAGGGGAGGCTGAGCCAGTGCGAGACTGAACCTGTGTCAGCCTTAG
CCAAGACAAAGCAGTGTTTTTTCAGCAGACGGCTGATGGGACAGGAATTGAAGAAGAGAATTGACTCGTATGAACA
GGACAGGGTGAAAATGCTGGGAATTATAATGGGAAACAAAACCTATCTATGTTTCATATTTTGAATATTTTCATTTG
TTAAGTTTATATCTGGATATAATGTTCTTTTAAACAAGTATAATCATATCGTCGGAGGTTAAGATTATGAAATT
TTAAATCTCTATTCAAGATGATGTTCACTCCAAATACACTACAGAATTTAGTCAACATTTTATATAATGTTTCA
ATAAATGTTTCTTTCAATAAAGATACTATGTGCCCTTCATAGTAATAAAATCTCAATCTTAAAGCATGAATCTAA
AACATAAATATTTATATTACAGACTCAATTTTACAAAATTACTAATTGCTCTAGTGCATATTTGAACTACAAGCA
ACTTTTLAGGAATACCTCTTTATACGTCTACATATTTAGTATATAAAAATAGATAATGCTCTTGGACACATTTT
GTATTATTCATGATCTGAATAGTAGTTAGTTAAAGATCATTGTGAATATTATGATCAACTGTTATAAATTAAGG
TCTTAATACCTTTTCTGCTCTTTCAAATAACTCTAATGAATATTCAAGATATTTTAGCCTTTTAAAGGTTGAGA
TTTAGCTCATGGATATATTTTTTGGTAGGGAAACATTAGGGTCTCCTTTTCTTCTTTTACCTAGAATGCCTCAT
TTAAAGTGCCCTTGAAAACATTTAGCTCCCTTCTTCATGAGCATCTGTAGAGCTGAAAGTATTCTGGAACTTTA
GACAGAAAGCTGAAAGGAATCTGCAGTCTCCTGCTGCAGTTCAACTCTGCTGTTTTTTCAGTCATTTCTACTGTG
AGTGGAGTGATGTTTGTGTGTGTGTTGGCAACATGCCTAATGTTTTCTTAATGATGACAACAAATATTTTAAAC
TGCATTTATCATTTTTTTAGGTCTTCATTAAATTTTAAATGTAATATCTGTTTCCCACCCCTACATTAGGAGGA
TAATTTCTTAAACCACATTGTTTTAATTGATTTTTCTTATCTTGATTCTTTTCATTAGAACTATCCCTAAATGT
AAAGATCTTTTGCTTCAAATTTGGCTTATTTTTTCTGATTTATGAGGGTTTGAAAGAAAGAATTCACCTAAAG
ATTCCATTTCCAGTTTTTATAATGTATTTTCAAGTTCTGAATAACAATATTTTTCCAAATTGAAAGTAAATATTCAA
GAAGTTGATAGCCTGGTTAAAAGTTAGATCCTCTATTACCATTCTAAGCACATTCACTTCTATATTGAAGTTTTG
GTAAAAATCTTTTTTCTTTTTTAATAAAAAAATTAGGTTATTACTTTTTTTATAACCAGATTTTTTAAAGCACTAG
GTTTTTAAATCAGTGGGTATCATAAAAGCCATATATAAAAGATCCTTTCTTATAGTAAGACTTGTGCTTGTTAGCA
GGTTTTTCTGTTAGTTTTTCCCCATAACATTTAATTATTACTAAAATTGTATTTACAATAGTGGTGCCAAATCA
AATGGTAATTTAAATAAAATCTATTCTGTGTTTATGTAGGGTGGTATAAAAAGAGGTCTTCATTTAGACATGTG
ATTTCTAAAATTCAGAAAGCAAATTGATAAGATGTTAGAAATTTGGACCGTTATTTATAATCAGGGTAGCATT
AAAATGGAGAAAAGAAAGTTTTCTGAAAAATGCAGTAAATATAAGCCACATTTCTAAAGTTTATTTTTATGAAA
GCTTCTTTTAAGATTTTGAATCTATTCTGCATTCCCAAGAGTTTATGTTTATTGTATTTTATATGATCTACAAC

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FIGURE 2226B

ATATAAAATTGTGTATTTTCTTTGGTTGTCCCTATTAAACAAAAAAGTATTTTAATAAAAAATTGAAATGAAAA
AAAAAAAAAAAAAAAAAAAA

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FIGURE 2227

MKLHYVAVLTTLAILMFLTWLPESLSCNKALCASDVSKCLIQELCQCRPGEGNCSCCKECLCLGALWDECCDCVG
MCNPRNYS DTPPTSKSTVEELHEPIPSLFRALTEGDTQLNWNIVSFPVAEELSHHENLVSFLETVNQPHHQNVSV
PSNNVHAPYSSDKEHMCTVVYFDDCMSIHQCKISCESMGASKYRWFHNACCECIGPECIDYGSKTVKCMNCMF

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FIGURE 2228

TTTCACCTCAGCAAGGCCAGGGGATCTGCACGTTGTGTTAGACATGGCTAAAGTAGCTGATACCATCCTGTTCCCT
CCTTGATCCACTAGAAAGGCTGGGACAGCACCGGTGATTACTGTCTTTCCCTGCCTCTTTTGCTCAGGGCCTTCCGAC
CTATACACTAGCTGTCCAGGGGATTTCTGGCCTCCCCTGAAAGAAACAAATAGATACCAGGAAGAAGCTAAGTAA
AGCAGTGGAGAAGCGCTTTCCGCATGACAACTCCTCTTGTTAGACACTCAACAGGAGGCAGGGATGCTGCTTAG
GCAGTTGGCTAACCAGAAGCAACAGCATCTTGCTTTTCGAGATCGGCGGGCCTACCTATTTGCCCATGCTGTTGA
TTTTGTTCCCTAGTGAAGAGAATAACTTGTTGGGCACCTTGAAAATTTTCAGGCTATGTTGAGGGCAGACTCTGAA
TGTCAATAGGTTGCTGCATATCGTTGGATATGGTGATTTCCAGATGAAACAGATAGATGCCCCCGAGACCCTTT
CCCTTTAAATCCTAGAGGAATTAAACCCCAAAAGGACCCAGACATGGCAATGGAGATTTGTGCTACGGATGCTGT
AGATGATATGGAAGAAGGTCTTAAAGTCTAATGAAGGCAGACCCTTGTTAGACAGGAATCCTTGCAAGCAGAGGT
TATCCCAGATCCAATGGAGGGAGAGCAAACTGGCCCACTGAGGAGGAGCTGAGCGAGGCAAAGGATTTCTTGAA
GGAAAGTTCTAAGGTGGTAAAGAAGGTCCCCAAAGGAACATCCAGTTACCAAGCTGAATGGATTTTGATGGTGG
CAGCCAAAGTGGTGGGAAGGAGATGAATATGAATATGATGATATGGAACATGAGGATTTTATGGAGGAGGAATC
TCAGGATGAGAGTAGTGAAGAAGAGGAAGAATATGAACTATGACTATTGGGGAGTCTGTGCATGATGATCTGTA
TGATAAGAAAGTAGATGAAGAAGCTGAGGCAAAAATGTTGGAGAAATATAAACAAGAAAGACTGGAAGAGATGTT
TCCAGATGAAGTGGACACGCCCCGTGATGTGGCTGCTCGAATTCGATTTTCAGAAATACAGAGGCCTTAAGAGCTT
CCGGACATCTCCATGGGATCCTAAGGAAAACCTTCCTCAAGATTATGCTCGAATATTTTCAGTTTCAGAACTTTAC
TAACACTAGGAAAAGCATCTTTAAAGAGGTTGAAGAAAAGAGGTTGAAGGAGCTGAGGTTGGCTGGTATGTCAC
ACTTCATGTCTCTGAAGTCCCCGTCTCAGTGGTTCGAGTGCTTCAGGCAAGGAACACCCTTGATTGCATTTTCTTT
ACTACCTCATGAACAGAAGATGTCAGTATTGAATATGGTGGTGAGGCGTGACCCTGGCAACACTGAACCTGTGAA
AGCCAAGGAGGAGCTCATATTTCACTGTGGATTCAGGCGCTTCCGAGCCTCACCTTTATTCTCTCAGCACACTGC
AGCGGACAAACATAAATTGCAGAGATTCTTGACTGCTGACATGGCCCTGGTGGCGACAGTCTATGCGCCAATCAC
TTTTCTCTCTGCATCTGTGCTGCTTTTCAAGCAGAAAAGCAATGGAATGCACAGCCTCATTGCTACAGGCCATCT
TATGTCAGTAGATCCAGACAGAATGGTCATCAAGAGAGTTGTTCTGAGTGGTCATCCTTTCAAATTTTTACTAA
GATGGCAGTAGTACGTTACATGTTCTTCAACAGAGAGGATGTGCTGTGGTTTAAACCAGTGGAAGTGAACGAA
GTGGGGCCCGAGAGGACATATCAAGGAACCTTTAGGTACCCATGGCCACATGAAATGCAGCTTTGATGGGAAGCT
AAAATCTCAAGACACAGTACTGATGAACCTGTATAAACGAGTCTTCCCCAAATGGACTTATGATCCATATGTACC
AGAACCAGTACCCTGGCTGAAAAGTGAGATTTCTTCAACAGTGCCTCAAGGGGGCATGGAGTAATGGATTCAAAG
AGATTCTGTCCTACCGGTGCCAGTCAGTACTCCAGGGATGGGAGGCACAAGTTGTGATTGGGCAAAAGTTTATTTT
CTATGTCAGCCTGTCAGTCCACTGCCCCATTTTGCAAGACTTTTTTTTAGCCTTGACAAAATGTCTCAGTTAAGT
ATAAAAGTTTTTCCACTACTTAGTCCAAAAAAAACCTATTAAATCTTAATGAAAT

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FIGURE 2229

MAKVADTILFLLDPLEGWDSTGDYCLSCIFAQGLPTYTLAVQGISGLPLKKQIDTRKKLSKAVEKRFP HDKLLLL
DTQQEAGMLLRQLANQKQQLAFRRRAYLFAHAVDFVPSEENNLVGTLKISGYVRGQTLNVNRL LHIVGYGDFQ
MKQIDAPGDPFPLNPRGIKPQKDPDMAMEICATDAVDDMEGLKVL MKADPCRQESLQAEVIPDPMEGEQTWPTE
EELSEAKDFLKESKVVKKVPKGTSSYQAEWILDGGSQSGGEGDEY EYDDMEHEDFMEEESQDESSEEEEEYETM
TIGESVHDDLYDKKVDEEAEAKMLEKYKQERLEEMFPDEVDT PRDVAARIRFQKYRGLKSFRITSPWDPKENLPQD
YARIFQFQNFNTNRKSIKFKEVEEKEVEGAEVGWYVTLHVSEVPVSVVECFRQGTPLIAFSLLPHEQKMSVLNMVV
RRDPGNTEPVKAKEELIFHCGFRRFRASPLFSQHTAADKHKLQRFLTADMALVATVYAPITFFPASVLLFKQKSN
GMHSLIATGHLMSVDPDRMVIKRVVLSGHFFKIFTKMAVVRYMFFNREDVLWFKPVELRTKWGRRGHIKEPLGTH
GHMKCSFDGKLKSQDTVLMNLYKRVPFKWTYDPYVPEPVPWLKSEISSTVPQGGME

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FIGURE 2230

GGCGGCGGCGGCGGCGGCGGAAGAACTGTTCCCTTCCACCTCTTCAGCCCCGGCAGGACGGGGGCGGCCGCCGCGAA
CCCCGGGCGGGGACAGCACGCAGCCTCGAGGCGCGCACCCCCGCCCGGCAGCGGCCCGACACCCGGGGCGAGCG
GGAAAACGGCAACGGCGGCGGCGGCGGCGGCGGCGGGGGAAGGATGCAGGGGAAGAAGCCGGGCGGTTCTCGTCGGG
CGGCGGCCCGGAGCGGCGAGCTGCAGGGGGACGAGGCGCAGAGGAACAAGAAAAAGAAAAAGAAGGTGTCTGCTT
TTCCAACATCAAGATCTTCTGTTGTCGAGTGCGCCCTGATGCTGGCGCAGGGCACGGTGGGCGCCTACCTGGT
GAGCGTCTTGACCACCCTGGAGCGTAGGTTCAACCTGCAGAGCGCTGACGTGGGTGTGATCGCTAGCAGCTTCGA
GATCGGGAACCTGGCGCTCATCTCTTCGTGAGCTACTTCGGGGCACGCGGGCACCGGCCGCGCCTGATCGGCTG
CGGCGGCATCGTCATGGCGCTGGGCGCGCTGCTGTGCGCGCTGCCCGAGTTCTTGACCCACCACTACAAGTACGA
GGCGGGCGAGATCCGCTGGGGCGCCGAGGGCCGCGACGTCTGCGCAGCCAACGGCTCGGGCGGCGACGAGGGGCC
CGACCCCGACCTCATCTGCCGCAACCGGACGGCTACCAACATGATGTACTTGCTGCTCATTGGGGCCCAGGTGCT
CCTGGGCATCGGTGCTACCCCTGTGCAGCCCCCTGGGCGTCTCCTACTACGACGACCACGTGCGGAGGAAGGACTC
CTCGCTCTATATAGGAATCCTGTTACGATGCTGGTATTTGGACCAGCCTGCGGGTTTATCTGGGCTCTTTCTG
TACCAAAATCTACGTGGATGCGGTCTTCATTGACACAAGTAACCTGGACATCACTCCGGACGACCCCCGCTGGAT
CGGAGCCTGGTGGGGTGGCTTTCTGCTCTGCGGTGCCCTTACTCTTCTTCTTCTTCCCTCTTGATGTTTGGGTTTCC
ACAGTCCCTGCCCGCGACTCAGACCCCGCCATGGAAGCGAGCAGGCCATGCTCTCGAAAGAGAATACGAGAG
ACCAAGCCCAGCAACGGGGTCTTGAGGACCCCCCTGGAGCCAGACAGCAGTGCCTCCTGTTTCCAGCAGCTGAG
AGTGATCCCGAAGGTACCAAGCACCTGCTCTCAAACCTGTGTTACCTGCATCATCCTGGCCGCTGCATGGA
GATTGCAGTGGTGGCTGGCTTTCGCTGCCTTTTTTGGGGAAGTACCTGGAGCAGCAGTTTAACTCACCACCTCTTC
TGCCAAACCAGCTGCTTGGGATGACTGCGATCCCGTGTGCTTGTCTGGGTATCTTCTGGGAGGTCTTTTGGTGAA
GAAGCTCAGCCTGTCTGCCCTGGGGGCCATTGCGATGGCCATGCTCGTCAACCTGGTGTCCACTGCTTGCTACGT
CTCCTTCTCTTCTTCTGGGCTGCGACACTGGCCCTGTGGCTGGGGTTACTGTTCCCTATGGAACAGCACAGCACC
TGGCTCAGCCCTGGACCCCTACTCGCCCTGCAATAATAACTGTGAATGCCAAACCGATTCTTCACTCCAGTGTG
TGGGGCAGATGGCATCACCTACCTGTCTGCCTGCTTTGCTGGCTGCAACAGCACGAATCTCACGGGCTGTGCGTG
CCTCACCACCGTCCCTGCTGAGAACGCAACCGTGGTTCTTGGAATGCCCCAGTCTTGGGTGCCAAGAGGCCTT
CCTCACTTTCTCTGTGTGATGTGTATCTGCAGCCTGATCGGTGCCATGGCACAGACACCCTCAGTCATCATCCT
CATCAGGACAGTCAGCCCTGAACTCAAGTCTTACGCTTTGGGAGTTCTTTTTCTCCTCCTTCGTTTGTGGGCTT
CATCCCTCCACCCCTCATCTTCGGGGCTGGCATCGACTCCACCTGCCGTGTTCTGGAGCACGTTCTGTGGGGAGCA
AGGCGCCTGCGTCCCTCTACGACAATGTGGTCTACCGATACCTGTATGTCAGCATCGCCATCGCGCTCAAACTCTT
CGCCTTCATCCTGTACACCACCACGTGGCAGTGCTGAGGAAAACTATAAACGCTACATCAAAAACACGAGGG
CGGGCTGAGCACCAGTGAGTTCTTTGCCTCTACTCTGACCCTAGACAACCTGGGGAGGGACCCCTGTGCCCGCAA
CCAGACACATAGGACAAAGTTTATCTATAACCTGGAAGACCATGAGTGGTGTGAAAACATGGAGTCCGTTTTATTA
GTGACTAAAGGAGGGCTGAACTCTGTATTAGTAATCCAAGGTCATTTTTTTCTTAAAAAAGAAAAAAGGTTT
CAAAAAAACCAAAACCTCAGTACACACACAGGCACAGATGCACACACAGCAGACAGACACACCGACTTTGTC
CTTTTTCTCAGCATCAGAGCCAGACAGGATTGAGAAATAAGGAGAGAATGACATCGTGGGCGAGGGTCTTGAGGC
CACTCGCGCGGCTGGGCCACAGAGTCTACTTTGAAGGCACCTCATGGTTTTTCAAGATGCTGACAGCTGCAAGCAA
CAGGCACTGCCAAATTCAGGGAACAGTGGTGGCCAGCTTGGAGGATGGACATTTCTGGATACACATACACATACA
AAACAGAAAACATTTTTTAAAGAAGTTTCTAAAAATAAA

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FIGURE 2231

MQGKKPGSSGGGRSGELQGDEAQRNKKKKKKVSCFSNIKIFLVSECALMLAQGTVGAYLVSVLTTLERRFNLQS
ADVGVIASSFEIGNLALILFVSYFGARGHRPRLIGCGGIVMALGALLSALPEFLTHQYKYEAGEIRWGAEGRDVC
AANGSGGDEGPDPLICRNRTATNMMYLLLLIGAQVLLGIGATPVQPLGVSYDDHVRRKDSSLYIGILFTMLVFG
PACGFILGSFCTKIYVDAVFIDTSNLDITPDDPRWIGAWWGGFLLCGALLFFSSLLMFQSLPPHSDPAMESE
QAMLSEREYERPKPSNGVLRHPLEPDSSASCFQQLRVIPKVTKHLLSNPVFTCIILAACMEIAVVAGFAAFLGKY
LEQQFNLTSSANQLLGMTAIPCACLGIFLGGLLVKKLSLSALGAIRMAMLVNLVSTACYVSFLFLGCDTGVPVAG
VTVPYGNSTAPGSALDPYSPCENNCECQTDSTPVCADGITYLSACFAGCNSTNLGACLTTPAENATVVP
KCPSPGCQEAFLTFLCVMCICSLIGAMAQTPSVIILIRTVSPELKSALGVLFLLRLLGFIPPPFI FGAGIDST
CLFWSTFCGEQGACVLYDNVVYRYLYVSI AIALKSFAF ILYTTTWQCLRKNYKRYIKNHEGGLSTSEFFASTLTL
DNLGRDPVPANQTHRTKFIYNLEDHEWCENMESVL

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FIGURE 2232

AGAGAGGGGTGCAAGATCCTGATTTTTTCAGGAGTTCAAGCGACAATGGCAGCCCAATACGGCAGTATGAGCTTCA
ACCCACGACACACCAGGGGCCAGTTATGGGCCTGGAAGGCAAGAGCCCAGAAATTCCTCAATTGAGAATTGTGTTAG
TGGGTAAAACCGGAGCAGGAAAAAGTGCAACAGGAAACAGCATCCTTGGCCGGAAAGTGTTTCATTCTGGCACTG
CAGCAAAATCCATTACCAAGAAGTGTGAGAAACGCAGCAGCTCATGGAAGGAAACAGAAGTTGTCGTAGTTGACA
CACCAGGCATTTTTGACACAGAGGTGCCCAATGCTGAAACGTCCAAGGAGATTATTCGCTGCATTCTTCTGACCT
CCCCAGGGCCTCATGCTCTGCTTCTGGTGGTTCCACTGGGCCGTTACACTGAGGAAGAGCACAAAGCCACAGAGA
AGATCCTGAAAATGTTTGGAGAGAGGGCTAGAAGTTTCATGATTCTCATATTCACCCGAAAGATGACTTAGGTG
ACACCAATTTGCATGACTACTTAAGGGAAGCTCCAGAAGACATTCAAGACTTGATGGACATTTTCGGTGACCGCT
ACTGTGCGTTAAACAACAAGGCAACAGGCGCTGAGCAGGAGGCCAGAGGGCACAGTTGCTGGGCCTGATCCAGC
GCGTGGTGAGGGAGAACAAGGAAGGCTGCTACACTAATAGGATGTACCAAAGGGCGGAGGAGGAGATCCAGAAGC
AAACACAAGCAATGCAAGAAGTCCACAGAGTGGAGCTGGAGAGAGAGAAAGCGCGGATAAGAGAGGAGTATGAAG
AGAAAATCAGAAAGCTGGAAGATAAAGTGGAGCAGGAAAAGAGAAAGAAGCAAATGGAGAAGAACTAGCAGAAC
AGGAGGCTCACTATGCTGTAAGGCAGCAAAGGGCAAGAACGGAAGTGGAGAGTAAGGATGGGATACCTGAATTAA
TCATGACAGCGTTACAGATTGCTTCCTTTATTTTGTTACGTCGTTCGCGGAAGATTAAAACTTAATGAAAATCTG
TTTGTATTTTCTGCATATTCTCTGGCAACCTTGCCCCATACTTACTTATTTAGCATAGTCGAGTGCTCTAGTTTC
TGTCTCTCAGGCACTCGTAACTAAGGACCACCATTGGCCATTGGTAGATGTTTGATTGACTTAACAAGAGAGGGA
CAAATTTTCAATTTGTGAACTCCAAAGCAGAAAGTATTGGTGCTTGCTACCTTGTAATTCTTCCTTAGACATG
CAGAGAAAATGTATGCAAGAGACCAAAAAGATGGCTCCAAGCTATGTCATGTTACCTGTAATAAAATCTTTCTT
CTAGATTCTCTCTATGTTGGCAGATAATCTCCCCTTGTTAGCTTCCACTCACTTATTCTTGCAATTCAGAGTCACAA
TGATCATCTTACCCATGTGGTTTTTGGAGAAAGAAAGATCAATTCCTTTGTTTGAGTGGGTAATCTTAGAGATGGA
GATGATTGTAGAATTATTCCTAGATGAGTGTCATTTATTTAATTCCATTGTCATATAAGGAGTCAAATTGTTTC
TTATCATTGTTCATTGAAGAACAGAGACCTGTCTGGAAAATCGATCTCTACAAATTCATTAATAATGATCCC
CAAATGCTGAAAAAGTGAAATACAGCAATTCAACAGATAATAGAGCAATGTTTAGTATATTCAGCTGTATCTGTA
GAACTCTTTGACGAACCTCAATTTAACCAATTTGATGAATACCCAGTTCTCTTCTTTCTAGAGAAAGATAGTT
GCAACCTCACCTCCCTCACTCAACACTTTGAATACTTATTGTTTGGCAGGTCATCCACACACTTCTGCCCCACT
GCATTGAATTTTTTGCTTATGTTGTTTATAATAAACTTTTCAATTATCTC

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FIGURE 2233

MAAQYGSMSPSTPGASYGPGRQEPRNSQLRIVLVGKTGAGKSATGNSILGRKVFHSGTAAKSITKKCEKRSSS
WKETELVVVDTPGIFDTEVPNAETSKEIIRCILLTSPGPHALLLVVPLGRYTEEEHKATEKILKMFGERARSFMI
LIFTRKDDLGDNLHDYLRAPEDIQDLMDIFGDYCALNNKATGAEQEAQRAQLLGLIQRVVRENKEGCYTNRM
YQRAEEEIQKQTQAMQELHRVELEREKARIREEYEEKIRKLEDKVEQEKRKKQMEKKLAEQEAHYAVRQQRARTE
VESKDGILELIMTALQIASFILLRLFAED

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FIGURE 2234

GGCATGATGGGCACCTGGAGGGCCGCACTCCCGTTCCAGCCAGGCTGAGCCTTCTGTCCCCTGCCTCTGGGGCCT
GGGAACCCCCCTTCTTCTTTCTCCTGAATGGCACCCCCGCCCTAGAATCCAGACACCGAGTTTCCCACTGTGGCT
GGTTCAAGGGTATGTGAGAGCTCCCTGGTGACAGTCTGTGGCTGAGCATGGCCCTCCCAGCCCTGGGCCTGGACC
CCTGGAGCCTCCTGGGCCTTTTCTCTTTCCAACCTGCTTCAGCTGCTGCTGCCGACGACGACCGCGGGGGGAGGCG
GGCAGGGGGCCCATGCCCAGGGTCAGATACTATGCAGGGGATGAACGTAGGGCACTTAGCTTCTTCCACCAGAAGG
GCCTCCAGGATTTTGACACTCTGCTCCTGAGTGGTGATGGAATACTCTCTACGTGGGGGCTCGAGAAGCCATTC
TGGCCTTGATATCCAGGATCCAGGGGTCCCCAGGCTAAAGAACATGATACCGTGGCCAGCCAGTGACAGAAAAA
AGAGTGAATGTGCCTTTAAGAAGAAGAGCAATGAGACACAGTGTTTCAACTTCATCCGTGTCTTGGTTTCTTACA
ATGTCACCCATCTCTACACCTGCGGCACCTTCGCCTTCAGCCCTGCTTGTACCTTCATTGAACCTCAAGATTCTT
ACCTGTTGCCCATCTCGGAGGACAAGGTTCATGGAGGGAAAAGGCCAAAGCCCCCTTTGACCCCGCTCACAAGCATA
CGGCTGTCTTGGTGGATGGGATGCTCTATTCTGGTACTATGAACAACCTTCCTGGGCAGTGAGCCCATCCTGATGC
GCACACTGGGATCCCAGCCTGTCTCAAGACCGACAACCTTCCTCCGCTGGCTGCATCATGACGCCTCCTTTGTGG
CAGCCATCCCTTCGACCCAGGTCTCTACTTCTTCTTCGAGGAGACAGCCAGCGAGTTTGACTTCTTTGAGAGGC
TCCACACATCGCGGGTGGCTAGAGTCTGCAAGAATGACGTGGGCGGCGAAAAGCTGCTGCAGAAGAAGTGGACCA
CCTTCTGAAGGCCAGCTGCTCTGCACCCAGCCGGGGCAGCTGCCCTTCAACGTATCCGCCACGCGGTCTCTGC
TCCCCGCCGATTCTCCCACAGCTCCCCACATCTACGCAGTCTTCACCTCCCAGTGGCAGGTTGGCGGGACCAGGA
GCTCTGCGGTTTGTGCCTTCTCTCTCTTGGACATTGAACGTGTCTTTAAGGGGAAATACAAAGAGTTGAACAAAG
AAACTTCACGCTGGACTACTTATAGGGGCCCTGAGACCAACCCCCGGCCAGGCAGTTGCTCAGTGGGCCCCCTCCT
CTGATAAGGCCCTGACCTTCATGAAGGACCATTTCCTGATGGATGAGCAAGTGGTGGGGACGCCCCCTGCTGGTGA
AATCTGGCGTGGAGTATACACGGCTTGCAGTGGAGACAGCCCAGGGCCTTGATGGGCACAGCCATCTTGTCTATGT
ACCTGGGAACCACCACAGGGTCTGCTCCACAAGGCTGTGGTAAAGTGGGGACAGCAGTGCTCATCTGGTGGGAAGAGA
TTCAGCTGTTCCCTGACCCTGAACCTGTTGCAACCTGCAGCTGGCCCCCACCAGGGTGCAGTGTTTTGTAGGCT
TCTCAGGAGGTGTCTGGAGGGTGCCCCGAGCCAACCTGTAGTGTCTATGAGAGCTGTGTGGACTGTGTCTTGGCC
GGGACCCCCACTGTGCCTGGGACCCTGAGTCCCGAACCTGTTGCCTCCTGTCTGCCCCAACCTGAACCTCCTGGA
AGCAGGACATGGAGCGGGGGAACCCAGAGTGGGCATGTGCCAGTGGCCCCATGAGCAGGAGCCTTCGGCCTCAGA
GCCGCCCGCAAATCATTAAGAAGTCTTGCTGTCCCTAACTCCATCCTGGAGCTCCCCTGCCCCACCTGTCTAG
CCTTGGCCTCTTATTATTGGAGTCATGGCCCAGCAGCAGTCCCAGAAGCCTCTTCCACTGTCTACAATGGCTCCC
TCTTGCTGATAGTGCAGGATGGAGTTGGGGGTCTCTACCACTGCTGGGCAACTGAGAATGGCTTTTCATACCCTG
TGATCTCTACTGGGTGGACAGCCAGGACCAGACCCTGGCCCTGGATCCTGAACCTGGCAGGCATCCCCCGGGAGC
ATGTGAAGGTCCCGTTGACCAGGGTCAGTGGTGGGGCCGCCCTGGCTGCCCAGCAGTCTTACTGGCCCCACTTTG
TCACTGTCACTGTCTCTTTGCCTTAGTGCTTTCAGGAGCCCTCATCATCTCTGTGGCCTCCCCATTGAGAGCAC
TCCGGGCTCGGGGCAAGGTTTCAGGGCTGTGAGACCCTGCGCCCTGGGGAGAAGGCCCGCTTAAGCAGAGAGCAAC
ACCTCCAGTCTCCCAAGGAATGCAGGACCTCTGCCAGTGATGTGGACGCTGACAACAACCTGCCTAGGCACTGAGG
TAGCTTAAACTCTAGGCACAGGCCGGGGCTGCGGTGCAGGCACCTGGCCATGCTGGCTGGGCGGCCCAAGCACAG
CCCTGACTAGGATGACAGCAGCACAAAAGACCACCTTTCTCCCCCTGAGAGGAGCTTCTGCTACTCTGCATCACTG
ATGACACTCAGCAGGGTGATGCACAGCAGTCTGCCTCCCCCTATGGGACTCCCTTCTACCAAGCACATGAGCTCTC
TAACAGGGTGGGGGTACCCCCAGACCTGCTCCTACACTGATATTGAAGAACCTGGAGAGGATCCTTCAGTTCTG
GCCATTCCAGGGACCCTCCAGAAACACAGTGTTCAGAGACCCTAAAAAACCTGCCTGTCCCAGGACCCTATGG
TAATGAACACCAACATCTAAACAATCATATGCTAACATGCCACTCCTGGAAACTCCACTCTGAAGCTGCCGCTT
TGGACACCAACACTCCCTTCTCCCAGGGTCATGCAGGGATCTGCTCCCTCCTGCTTCCCTTACCAGTCGTGCACC
GCTGACTCCCAGGAAGTCTTTCTGAAGTCTGACCACCTTTCTTCTTGCTTCAGTTGGGGCAGACTCTGATCCCT
TCTGCCCTGGCAGAATGGCAGGGGTAATCTGAGCCTTCTTCACTCCTTTACCCTAGCTGACCCCTTCACCTCTCC
CCCTCCCTTTTCTTTGTTTTGGGATTGAGAAAACCTGCTTGTGAGAGACTGTTTATTTTTTATTAAAAATATAAG
GCTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2235

MALPALGLDPWSLLGLFLFQLLQLLLPTTTAGGGGQGPMRVRYYAGDERRALSFFHQKGLQDFDTLLLSGDGNT
LYVGAREAILALDIQDPGVPRCLKNMIPWPASDRKKSECAFKKKSNETQCFNFIRVLVSYNVTHLYTCGTFAFSPA
CTFIELQDSYLLPISEDKVMGKQSPFDPAHKHTAVLVDGMLYSGTMNNFLGSEPILMRTLGSQPVLKTDNFLR
WLHHDASFVAAIPSTQVVYFFFEETASEFDFFERLHLSRVARVCKNDVGGEKLLQKKWTTFLKAQLLCTQPGQLP
FNVIRHAVLLPADSPTAPHIYAVFTSQWQVGGTRSSAVCAFSLLDIERVFKGKYKELNKETSRTTYRGPETNPR
PGSCSVGPSSDKALTFMKDHFLMDEQVVGTPLLVKSGVEYTRLAVETAQGLDGHSHLVMYLGTGTTGSLHKAVVSG
DSSAHLVEEIQLEFPDPEPVRNLQLAPTQGAFFVGFSGGVWRVPRANCSVYESCVDCVLARDPHCAWDPESTRCCL
LSAPNLNSWKQDMERGNPEWACASGPMRSRLRPQSRPQIIKEVLAVPNSILELPCPHLSALASYWSHGPAAVPE
ASSTVYNGSLLLIVQDGVGGGLYQCWATENGFSYPVISYWVDSQDQTLALDPELAGIPREHVKVPLTRVSGGAALA
AQQSYWPHFVTVTVLFLVLGALIIILVASPLRALRARGKVQGCETLRPGEKAPLSREQHLQSPKECRTSASDVD
ADNNCLGTEVA

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FIGURE 2236

GTGCATGAGGGGGCTGCTCCGGAGCGACGGCGGCTGCAGCTGGAGCCAGGCGCTCGCCCGTCCGCCGGTTGGCTC
GCCGGGACCTCGCGCACCGGCGGCAGAGTCCCTTGCGTGGATTGGCAAGCGACGCCCCACCTGCCCCGAGCTCAC
CATTTTCTTTTCGCGCTGGCTGCAGCTGACCCGGCGAAGGGAGCCGACCGGGGCCCTGGGCTGGAGGTAAAACCCCA
CGGAAAGAACATGAGGTTCCCTTGGAATCATTCAAGAGGAAGATGGAAGGGGCTGTTTAGAAGAGCTTAAAGC
TACAGGCTGTAAGACTGGGGCCTGAGTGTGGCAGTGGAAAACACTGTTGGGCTGTGATCTCTCCCTGAAAAGTT
CCAGGTGCCTTTTTTGCTTCCTGCAAAAGAAAGGAAGCGAAAGAGAAGACCATGTCCATAGCCCTGAAGCAGGTAT
TCAACAAGGACAAGACCTTCCGACCCAAGAGGAAATTTGAACCTGGCACACAGAGGTTTGAGCTGCACAAACGGG
CTCAGGCATCCCTCAACTCGGGTGTGGACCTGAAGGCGGCTGTGCAGTTGCCAGTGGGGAGGACCAGAATGACT
GGGTGGCAGTACATGTGGTGGACTTCTTCAATCGGATCAACCTCATCTATGGCACCATCTGTGAGTTCTGCACCG
AGCGGACCTGTCTGTGATGTGAGGGGGCCCCAAATATGAGTATCGGTGGCAGGATGATCTCAAGTATAAGAAGC
CAACAGCGCTGCCAGCTCCCCAGTACATGAACCTTCTTATGGATTGGATTGAGGTTGAGTCAACAACGAGGAAA
TATTTCCAACATGCGTGGGTGTTCCCTTCCCAAAGAACTTCTTCAGATCTGCAAGAAGATCCTGTGCCGCCTTT
TCCGGGTCTTTGTCCACGTCTATATCCACCACTTCGACCGGGTCATTGTGATGGGTGCAGAGGCCCATGTCAACA
CCTGCTACAAACACTTCTATTACTTTGTGCACAGAGATGAACCTCATAGACCGCAAGGAGCTAGAGCCTTTGAAAG
AAATGACGAGCAGGATGTGTCACTTAATGCTCCACCTCACCTTTTGAAGAAAGGAAAGCTGTTTCTCTCGGTGC
CCTGAGCGGGCAGGAGGTGGACCACCTGGCTGAAATGACACACCTACTCCCAGGAACAGCAGAGGTGGAGGCAA
GCAGTGACTCCTGAGAGACATTCCCCACTCACTTTGTGTGCTCTTAACCTTCTGAGTGCTGCTAGCCCAGACCTG
TGGACGAGGCAGACCACAACGTGAAAGAAGGACCAGCCCTTGACCGTTCTGGCTGGGGAATTGTCCACGAGGAA
GCCTCTGCGCTTCCACACATGGCACAGTTCTGCCTGTGACCTGCCGCCTAAGCTTTACTGGAATTCAGGTTTTGA
GACTGAGATGCGTGTTTCGTATTTTTTCCACTTATCTGTCTTGTGAGCTGGCCGACTTCTCTGTGATTGGTTTTTA
AGTGCCGGGTGAATTTTTGGACCTCTGGATGTGCAGCAAGTTTTTATGCAATAAGCCTTCCCTTCAGGTCTCTAAA
AGCTCCTGCTCTGATCTGTGGTTTAACTGTGCAGGGCTGTGGAGCTCTGAGAGACCTGAACCCCTACCCATCC
CCTGCACCTCCCTACTCTCCCTGCCGAGGCGTCCATAGCATTTCCTAATAAATAGTTTTATCAGGGACACTCCA
TGGGGTGGCTTGTCTCTGCCCCAAACAGGGTCTTCACGTTCTAACTGCAGGGAAGAGACTGGTTACTAGCGTAAA
GCTGACAAGTTACCAGTTCACCTGATCAGAATGTATTTTTTATAACCACCATCATTCCCTGTCTCTTCAGTGGA
GATATTCTTTCCCTGTTTCCAGAAGAGAGAAATAAAAGTCCTAAATAACTAAGAATGATCAGCGGGAGCGTTGGG
CATGATTACTGCAGTGTTTGTCTTTATTAAAGACAGGGAGTCGTGGCTGTCTCTACATAATACTAACATTTAG
TGAAAAAAGTACAGTTGGTTATTTGGTACGTGTAGATTTAACACCCAGACGGCTGACTTGTAACCTCCCCACTA
GCCTTCTGAGCATTTAAACCCAGCCGTCATTCTCTCCCACTCCACGCTCCCCACTCCTCTGCCACGTTATGTTA
CGGCACAAAATTAATTTCTGCCCCCTGTGATTGGGCCACGGTTGCCAAGGTAACAGTGGAGCTGGAGCTAACTTCC
TTCTTTCATCCTTTCCAATTTTCTATTCCAGAAGACAGTCAGAATAATGCATTCTGTACTACATCCTGCCTTTT
GAAACCTAAATGAGTTTTCGTTGATGAAATGTTGCCTTCTCTGATTTCATTACAAAACCTGTGGTGGTTCTGACCA
CCTGTGACGAGGGGGTGCATAATACTTCCAGTGATCCTTTTAATTTAGCAAAATATTTGTCCGTGGAGGGAAGTA
GATAAGAATGTATTAGTGTATTTTAAAGTAATAATGATTAAAGAATAACTAAATGAC

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FIGURE 2237

MSIALKQVFNKKDKTFRPKRKFEPTQRFELHKRAQASLNSGVDLKA AVQLPSGEDQNDWVAVHVVDFFNRINLIY
GTICEFCTERTCPVMSGGPKYEYRWQDDLKYKKPTALPAPQYMNLLMDWIEVQINNEEIFPTCVGVFPFKNFLQI
CKKILCRLFRV FVHVYIHHFDRVIVMGAEAHVNTCYKHFYYFVTEMNLIDRKELEPLKEMTSRMCH

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FIGURE 2238

GGCACGAGGCTCTGGTGGCTAGCCTGTCCTGACAGGGGAGAGTTAAGCTCCC GTTCTCCACCGTGCCGGCTGGCC
AGGTGGGCTGAGGGTGACCGAGAGACCAGAACCTGCTTGCTGGAGCTTAGTGCTCAGAGCTGGGGAGGGAGGTTT
CGCCGCTCCTCTGCTGTGACGCGCCGGCAGCCCCCTCCCGGCTTCACTTCCCTCCCGCAGCCCCCTGCTACTGAGAAGC
TCCGGGATCCCGAGCAGCCGCCACGCCCTGGCCTCAGCCTGCGGGGCTCCAGTCAGGCCAACACCGACGCGCAGCT
GGGAGGAAGACAGGACCCTTGACATCTCCATCTGCACAGAGGTCTGGCTGGACCGAGCAGCCTCCTCCTCCTAG
GATGACCTCACCTCCAGCTCTCCAGTTTTTCAGGTTGGAGACATTAGATGGAGGCCAAGAAGATGGCTCTGAGGC
GGACAGAGGAAAGCTGGATTTTGGGAGCGGGCTGCCTCCCATGGAGTCACAGTTCCAGGGCGAGGACCGGAAATF
CGCCCCCTCAGATAAGAGTCAACCTCAACTACCGAAAGGGAACAGGTGCCAGTCAGCCGGATCCAAACCGATTGTA
CCGAGATCGGCTCTTCAATGCGGTCTCCCGGGGTGTCCCGAGGATCTGGCTGGACTTCCAGAGTACCTGAGCAA
GACCAGCAAGTACCTCACCGACTCGGAATACACAGAGGGCTCCACAGGTAAGACGTGCCTGATGAAGGCTGTGCT
GAACCTTAAGGACGGAGTCAATGCCTGCATTCTGCCACTGCTGCAGATCGACAGGGACTCTGGCAATCCTCAGCC
CCTGGTAAATGCCCAGTGCACAGATGACTATTACCGAGGGCCACAGCGCTCTGCACATCGCCATTGAGAAGAGGAG
TCTGCAGTGTGTGAAGCTCCTGGTGGAGAATGGGGCCAATGTGCATGCCCGGGCCTGCGGCCGCTTCTTCCAGAA
GGGCCAAGGGACTTGCTTTTATTTTCGGTGAGCTACCCCTCTCTTTGGCCGCTTGACCAAGCAGTGGGATGTGGT
AAGCTACCTCCTGGAGAACCCACACCAGCCCGCCAGCCTGCAGGCCACTGACTCCCAGGGCAACACAGTCCTGCA
TGCCCTAGTGATGATCTCGGACAACCTCAGCTGAGAACATTGCACTGGTGACCAGCATGTATGATGGGCTCCTCCA
AGCTGGGGCCCGCCTCTGCCCTACCGTGCAGCTTGAGGACATCCGCAACCTGCAGGATCTCACGCCTCTGAAGCT
GGCCGCAAGGAGGGCAAGATCGAGATTTTCAGGCACATCCTGCAGCGGGAGTTTTTCAGGACTGAGCCACCTTTC
CCGAAAGTTTACCAGAGTGGTGCTATGGGCCTGTCCGGGTGTCGCTGTATGACCTGGCTTCTGTGGACAGCTGTGA
GGAGAACTCAGTGCTGGAGATCATTGCCTTTTATTGCAAGAGCCCCGACCGACACCGAATGGTGCCTTTTGGAGCC
CCTGAACAAACTGCTGCAGGCGAAATGGGATCTGCTCATCCCCAAGTTCTTCTTAAACTTCTGTGTAATCTGAT
CTACATGTTTCTTTCACCGCTGTTGCCTACCATCAGCCTACCCTGAAGAAGCAGGCCGCCCTCACCTGAAAGC
GGAGGTTGGAACCTCCATGCTGCTGACGGGCCACATCCTTATCCTGCTAGGGGGGATCTACCTCCTCGTGGGCCA
GCTGTGGTACTTCTGGCGGCGCCACGTGTTTCTGCTGATCTCGTTTATAGACAGCTACTTTGAAATCCTCTTCCT
GTTCCAGGCCCTGCTCACAGTGGTGTCCAGGTGCTGTGTTTCTGGCCATCGAGTGGTACCTGCCCCCTGCTTGT
GTCTGCGCTGGTGTGGCTGGCTGAACCTGCTTTACTATACAGTGGCTTCCAGCACACAGGCATCTACAGTGT
CATGATCCAGAAGGTCATCCTGCGGGACCTGCTGCGCTTCTTCTGATCTACTTAGTCTTCTTTTCGGCTTCGC
TGTAGCCCTGGTGAGCCTGAGCCAGGAGGCTTGGCGCCCCGAAGCTCCTACAGGCCCAATGCCACAGAGTCAGT
GCAGCCCATGGAGGGACAGGAGGACGAGGGCAACGGGGCCAGTACAGGGGTATCCTGGAAGCCTCCTTGGAGCT
CTTCAAATTCACCATCGGCATGGGCGAGCTGGCCTTCCAGGAGCAGCTGCACTTCCGCGGCATGGTGCTGCTGCT
GCTGCTGGCCTACGTGCTGCTCACCTACATCCTGCTGCTCAACATGCTCATCGCCCTCATGAGCGAGACCGTCAA
CAGTGTGCGCACTGACAGCTGGAGCATCTGGAAGCTGCAGAAAGCCATCTCTGTCTGGAGATGGAGAATGGCTA
TTGGTGGTGCAGGAAGAAGCAGCGGGCAGGTGTGATGCTGACCGTTGGCACTAAGCCAGATGGCAGCCCCGATGA
GCGCTGGTGTTCAGGGTGGAGGAGGTGAACTGGGCTTCATGGGAGCAGACGCTGCCTACGCTGTGTGAGGACCC
GTCAGGGGCGAGTGTCCCTCGAACTCTCGAGAACCTGTCTGGCTTCCCTCCCAAGGAGGATGAGGATGGTGC
CTCTGAGGAAAATATGTGCCGTCCAGCTCCTCCAGTCCAACTGATGGGCCAGATGCAGCAGGAGGCCAGAGGA
CAGAGCAGAGGATCTTTCCAACCACATCTGCTGGCTCTGGGGTCCCAGTGAATTCTGGTGGCAAATATATATTTT
CACTAACTAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2239

MTSPSSSPVFRLETLDGGQEDGSEADRGKLDGSGLPPEMESQFQGEDRKFAFQIRVNLNYRKGTGASQPDNPRFD
RDRLFNAVSRGVPEDLAGLPEYLSKTSKYLTDSYTEGSTGKTCLMKAVLNKDGVNACILPLLQIDRDSGNPQP
LVNAQCTDDYYRGHSALHIAIEKRSLQCVKLLVENGANVHARACGRFFQKGQGTCTFYFGELPLSLAACTKQWDVV
SYLLENPHQPASLQATDSQGNTVLHALVMISDNSENIALVTSMDGLLQAGARLCPTVQLEDIRNLQDLTPLKL
AAKEGKIEIFRHILQREFSGLSHLSRKFTWCYGPVRVSLYDLASVDSCEENSVLEIIAFHCKSPHRHRMVVLEP
LNKLLQAKWDLIPKFFLNFLCNLIYMFIFTAVAYHQPTLKKQAAPHLKAEVGNMMLTGHIILLLGGIYLLVGQ
LWYFWRRHVFIWISFIDSYFEILFLFQALLTVVSQVLCFLAIEWYLPLLVSALVLGWLNLLEYTRGFQHTGIYSV
MIQKVILRDLLRFLLIYLVFLFGFAVALVSLSQEAWRPEAPTGNATESVQPMEGQEDEGNGAQYRGILEASLEL
FKFTIGMGELAFQEQLHFRGMVLLLLLAYVLLTYILLNMLIALMSETVNSVATDSWSIWKLQKAISVLEMENGY
WWCRKKQRAGVMLTVGTPDGSPDERWCFRVEEVNWSWEQTLPTLCEDPSGAGVPRTLENPVLASPPKEDEGA
SEENYVPVQLQSN

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FIGURE 2240

GCAGGCTGCTGTCTCACAGAGCGAGAAGGTGTCAGGAGCAGCCCAGTTGTGTCTCTCTCTCTACCTCTGTGAAGG
GCGCGA**AATG**GGGCAGAGCAGAACTTCTAGAAGGGAGATGAGCACCCAGGATCCCTCAGATCTGTGGAGCAGATCC
GATGGAGAGGCTGAGCTGCTCCAGGACTTGGGGTGGTATCACGGCAACCTCACACGCCATGCTGCTGAAGCTCTT
CTCCTCTCAAATGGATGTGACGGCAGCTACCTTCTGAGGGACAGCAATGAGACCACCGGGCTGTACTCTCTCTCT
GTGAGGGCCAAAGATTCTGTAAACACTTTTCATGTTGAATATACTGGATATTCATTTAAATTTGGCTTTAATGAA
TTCTCATCTTTGAAGGATTTTGTCAAGCATTTTGCAAATCAGCCTTTGATTGGAAGCGAGACAGGCACTCTGATG
GTTCTAAACATCCCTACCCAAGAAAAGTGAAGAACCCTCCATTTATGAATCTGTCCGGGTTACACAGCAATG
CAGACAGGAAGAACAGAAGATGACCTTGTGCCACAGCACCTTCTCTGGGCACCAAAGAAGGTTACCTACCAAAA
CAGGGAGGCCTGGTCAAGACCTGGAACAAGATGGTTTACTCTGCACAGGAATGAACTGAAATACTTCAAAGAC
CAGATGTCACCAGAACCAATTCGGATCCTAGACCTAACAGAATGTTAGCTGTACAATTCGATTATTCACAAGAA
AGGGTAAACTGTTTTTGTGGTATTTCCATTCAGGACATTTTATCTCTGTGCAAAGACCGGAGTAGAAGCTGAT
GAGTGGATCAAGATATTACGCTGGAATTTGGTCAAGGACAAAAGCTGTATTTTGTCTGCTCTCTGTATATCTCCC
GAGGAGAAGACTGATCACAAAT**TAA**GAAAACAGCTCAACCAAGGGGAAGGCACGATCCGATCTCGGTCGTTTCATCT
TTAAATAGATCTTTCTTGCCAAGGAATGCTCTGGCCCAGGAGCAAGGTGGAATGTTTCCCTGACGCTGTGATCTG
CAGCAGGCTTCAAATGAAAACCGACTAAGGATTTTCTTTCAAAAACAAATCAGAAGCAGATGCTGATTGGGACCC
ATATACCACGTTGCTGACTCACGTTGCTGCCCTTCCATGATGTTGCCATCTCCTTGAGAACACTGAAGCAATCAC
CATTCTGATAGAAAGTGCTTAAACCACCCTCTTAGGTCGCTCACTCTTAGAACACACAATGGAAGAGGAAGGG
TTTTTGTCTTCACTCATTGTGGTCCCCAAGCCTATTGACACTAGTTGCCTAGAGTCCCCTGTGAGTCATGGTCA
GCCTGTCTGACATCCAGGTTGTGCTATTAACCAAGAAGGAAACAGATACTTGGAGGCTTAGATGACTTCTGCAGG
ATTTATATTCAGATAGAAAACATCAAATATTTTCAGGGGAGAGGTTTTTTTTTTTTTAATTTTTTCCCCCTTTATACA
AAAAAAAAGAACATTTCCAAAACATAAATAGAAAAATGCTTGTGGCATTATTTTTCTCTTTTTTAAAGGTTTCAGAA
ATTTGGCAGGTCCTTTGCTTCTAATGACAAAACTGTGAGAGCTAGATGTCCTATGGGCAATTAGGTAGTATAATA
AAGGTAAATGAAGGTACAATTTTTTAAACCATTATTTTACCCTGTTGGGGTAAATGTTTTAAAGAGTGAGAAAAC
ATAAATTGAGAAAGGGTGATAAAGTAATAGATAACTTTTAGTTTAAATAATAATTATTGTTATTATACTACTAATA
ATAGAGCACTTGTAAGCACTAAGTTATCTTTATCCAACATTTCTCCAAATGGACTGAAAGAACTTTTCAAGGAC
AGTGTATTATAACAATCCCTTTCCAGAATTAGTTGTATAGGGTTGGCCCAAGAGATGTAAGAAAAATCTCGCAT
TGCTCCCTAAGCACCTTGGGCCTTATTAAAGAGCAACTTCTATTTCCAGTCGGGGGAGTAACACTAAAGCTACAA
GAAATATGTAATAATGATAGGTAATAATGTGTTCCAAAGCTTTTTTCAAAGTAAATAAGGAGGCAATAGAAAGAA
TGAGATACTGATGTCCACAGTTTATTGGCAGAATCTAACCCTTCTGTTATCTTTTTTAATACTATTTTTGTTTA
GATAGAAGTTTCAAAGAAGATAAAAAATGCTTGAAGAGCCTGAGAGTAAAAAGATTATGCTGCAAAGCTATGATAT
AACTGCTCTTGCAGTCCAAAGGGATACCTGATTAAAGAAGTTTCTTATTTAAACATCTCAGACGCAAAAATTAC
ATTAAATTTTTGTATATTTCAACAACATTTTAAATGTATTTGTTATGTTTGTATTATATAGGATAAAGCAAATG
TCAAGTTAAATGTATTGTGTTGTTTGTAAAGTAAGAAGTTACTGGCCAGGAGCGGCGGCTCATGCCTGTAATCC
CAGGACTTTGGTAGGCCAAGACAAGCAGATCACTTGAGGTCAGGAGTTCAACATCAGCCTGGCCAACATGATGAA
ACCTTGCTTTTACTAAAAATACAAAAATTAGCTGGGCATGGTGGCAGGCGCCTGTAATCCAGCTACTCAGGAGG
CTGAGGCAGGAGAATTGCTTGAACCCGGGAGGTGGAGGTTGCAGTGAACCAAGATCGCGGCGCTGCACTCTAGCC
TGGGTGACAGAGTCAGACTCCGTCCCAAAAAACAAAACAAAACAAAACAAAAAAGAGTTACAAATG
AATACTCACGGATATGTATAGTTTTATGTTTGTCTTTCTTAGAAACAAATGTGTTTCTTTGGGTGGGTAAATATTGT
GTTTTACTATGTTTACCTTTTATAAAACATAACCTGTTTATTTATATTCTTTGGCTTTGTTTATTAAAAAGCATG
ATTTTGCTGTGCATGTACCATTTTG

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FIGURE 2241

MGRAELLEGMSTQDPSDLWSRSDGEAELLQDLGWYHGNLTRHAAEALLSNGCDGSYLLRDSNETTGLYSLSVR
AKDSVKHFHVEYTGYSFKFGFNEFSSLKDFVKHFANQPLIGSETGTLMVLKHPYPRKVEEPSIYESVRVHTAMQT
GRTEDDLVPAPTAPSLGTKEGYLTKQGGLVKTWKTRWFTLHRNELKYFKDQMSPEPIRILDLTECSAVQFDYSQERV
NCFCLVFPFRTFYLCAGTGVADWIKILRWKLVKDKSCILSALCISPEEKTDHK

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FIGURE 2242A

AAGGAGAGAACTTTTCCTGCACAAGGAACGCCTCGTGGGGAGACCCAAGGCAGGAGCGGTCCGGAGCCGGCTGCG
GCGTGTGCGGCCCGCCTTGGGACAGCGATCGCCGCGGGTGGCAACAGAGAGCCCCAAGCAAAAGTGGGAGCAGGA
GCTTGGAGGTGAGCACAGGAAGCCCCACTTGAGGCTTTTACGCAGCCTCTAGTCTCTGTTTCTTCTGGAATAGGC
AAGCGTCCCTTCAACTCTAAGAGACCAGCAGAGGCCACTGTCCCTTAAGACTGCCGGAGTCCCTACCACTTCTCC
AGGATTCCAGAGGAGACTGTGGCGATGGTG AATGAAGGTCCCAACCAGGAAGAGAGCGATGACACCCCTGCGCCG
GAGTCCGCACTCCAAGCGGACCCAGCGTCTCGGTCCATCCAGCGTCTCGGTCCATCCCAGCGTCTCCATCAAC
CCCAGCGTCTCTGTCCACCCAGCAGTTCCGCCCCACCCAGTGCCTTAGCCCAACCCAGTGGCTTGGCTCACCCC
AGTAGCTCGGGCCCTGAGGACCTCAGCGTGATCAAGGTGAGCAGGCGCCGTTGGGCCGTGGTCTGGTGTTTAGC
TGCTACTCCATGTGCAACTCCTTTTCACTGGATCCAGTACGGCTCCATCAATAACATCTTCATGCACTTCTACGGT
GTCAGTGCCTTTGCCATTGACTGGCTGTCCATGTGCTACATGCTGACTTACATCCCTCTGCTCCTGCCAGTGGCT
TGGCTGCTGGAGAAGTTCGGCCTGCGCACCATTGCTCTCACTGGCTCGGCTCTCAACTGCCTGGGGGCCTGGGTG
AAGCTGGGCAGCCTGAAGCCGCATCTCTTTCCGGTCACCGTAGTGGGCCAGCTCATCTGCTCTGTGGCCCAGGTT
TTCATCCTGGGCATGCCCTCCCGCATCGCTTCCGTCTGGTTCGGGGCTAATGAGGTTTCAACAGCCTGCTCGGTG
GCTGTCTTTGGCAATCAGCTTGAATTGCGATTGGGTTCTTGGTCCCTCCTGTTTTGGTACCCAACATTGAAGAC
CGGGACGAGCTTGCCCTACCACATCAGCATCATGTTCTATATAATAGGAGGTGTGGCCACTCTCCTCCTCATCCTT
GTCATCATTGTGTTCAAGGAGAAACCTAAATATCCCCCAGCAGGGCCCAATCCCTGAGCTATGCCCTGACCTCT
CCTGATGCCTCATACTTAGGTTCCATCGCCCGGCTCTTCAAAAATCTCAACTTTGTGCTGCTTGTATCACCTAT
GGTCTGAATGCTGGTGCTTTTTATGCCTTGTCCACTCTTCTGAATCGCATGGTGATCTGGCACTACCCGGGGGAA
GAAGTGAATGCTGGAAGAATTGGCCTGACGATCGTCATTGCAGGAATGCTTGGGGCTGTGATCTCAGGAATCTGG
CTGGATAGGTCCAAAACCTACAAAGAGACAACCCTGGTAGTCTATATCATGACACTGGTGGGCATGGTGGTGATAC
ACGTTTACCTTGAACCTGGGACACCTGTGGGTAGTGTTCATCACTGCTGGCACAATGGGCTTCTTTATGACTGGC
TATCTCCCACTGGGATTTGAGTTTGCTGTGGAGCTCACGTACCCAGAATCAGAAGGCATCTCCTTCGGCCTCCTC
AACATATCTGCACAGGTATTTGGGATCATCTTTACCATCTCCCAGGGCCAGATTATTGACAACCTATGGAACCAAG
CCTGGGAACATCTTCCTGTGTGTGTTTCTTACTCTTGGAGCAGCCCTCACTGCATTTCATTAAGGCAGATCTCCGG
AGACAGAAAGCAAACAAGAACTCTTGAGAACAACCTCCAAGAGGAGGAGGAGGAGAGCAACACCAGCAAAGTG
CCCACTGCTGTGTGTCAGAGGATCATCTCTGAGAGGAAGGTGGTGACAACCTCAGGGAACACGAACACCCACCTTTT
CCTTCAGCACAGCTCTCACCGCCAGCACAAAGGGCTTCGCTAGAGATGTTTTTGGAGGGAATCAGTGGGACTATT
TGTGGCATGGATGGCCTATTCTCCTAGAACCCACGTAAGAGCTTGGATGATTTAGTTGGAGAAAATTGCACCTA
TCACCAATGCAAATTTGATTCCACCTCCACCCCTTTTAGGTTATGGGAGTTGGTGTGGGACAGGGTGGCAG
AGAATATTGGAGTCAATCCTAGCTTGGTCTCTTGCCCTCCCTCTTTTCTCCATCCATCGTGGACAATGCCTGCA
AAATTTTACAGGAAGAAAGCCTATTAGGATATTAACCTGAAATTTCCAGTGTCTTAAGAGCCTCTCATGAAGC
CCAGTTCTAATAAGTGGCAAGCTGCTCTGCCGGGGTCATCTCTGGGTGCTCGGACTGATTGCTCAAGTTCTGCA
GGAGAGGAAGCACCATTAGAACAACCTCCATCAGAACAGCTCCACCGGGACTTGTGGGCCTAAATTTTCTGGCCT
AACGGGTCTGTCTCAAACCTCTTTTCTAAGAGCTGAGCAAACCAACCATAATAAACTTGACAAAAGACTTTGT
TGTGGCCATGACAGAGATACCGACTCAGGAGGGCTACCTACCTAGGTGTGATCATGCTGGGGGTACCTTCTGAG
TATATTTGTGAAAGCACATATTTGGGAACCTCTGGTAGCTTGAGTTGGGAATGGGAAGGTTCTTTTTTACAGAAGT
ACTTCCCCAGGGACTTCTGTGTGTACAGTCACCTCTGATGCCTTTATCTTGATGTTGCATTGGGAATCTCAGCC
ATCAGCCCAAGTGCTTGTGTTTTATTCCAAGGCAGGGTAATCCCCGTCAACTTACTCTAACCTTTGCTGAAAACCTAA
TCTTGATTCACTTCTACTCTGAAAATCCAAAGGTGCTTCTGAGAGATAAGAGGGAAGGGGTAGAAGGAAAGGTGCC
CCTTGAAATGGGAATTGAGCCTGTTAGAATTAAGGCTTATCTCACCTCTGCTGGGGACAGTATTTGCACCACCA
ACCCCTCTCCTCACCTGCTTTGAGCGATAATCTTTATCAGATATTCTAAACTTAAAGGGATTCCCTTTAAACCAA
CTCAAGCTGATCTTTCCTATCTAGCCTGCTGTTTGGCTGTACTCATGGGCTTTGGTAATATCTCCTAAAAATGAG
GTTTTGGTAATTTTTCTATGCAATTGGGCAACTGTGATCGTGACCCTGTGCTGTCTTGTCTCCAGCCACTGCCCT
GGCCTCAGCATATCAGGGCAGCCTGTGCTGGCTGCAATACTGTGGTGCTTGGGCCACTGCCTGAGAGGAGCCAGG
TTTGTGTGTGTCTGCATGTGTGTGTGTGTGTGTTTGTACAGATTCAAGCAATGGATGCAAGGAACATGCTGTATG
TAATAGAAGAAAGAAGTCCACGTTTTTCGGCAGAAGTAGTGAGTCAAGTGTGGAAGAGAGGTGAGGGTGTGCTTTAC
TTTTTGATAAAGAGAAAGATGTTTACTCATAAACCTTCAAAGGTATTAACAAATGTTTACCAAACCTATTGCT
TTATTTTAAAAACATAATTTGTGTTTTCTATTTGTAAGATCTGACATTTGAGGCCAATAAAAACTTCTCAGAAA

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FIGURE 2242B

AAAAAAAAAAAAAAAA

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FIGURE 2243

MVNEGPNQEESSDDTPAPESALQADPSVSVHPSVSVHPSVSINPSVSVHPSSSAHPSALAQP SGLAHPSSSGPEDL
SVIKVSRRRWAVVLV FSCYSMCNSFQWIQYGSINNIFMHFYGVSAFAIDWLSMCYMLTYIPLLLPVAWLLEKFGL
RTIALTGSA LNCLGAWVKLGSLKPHLFPVTVVGQLICSV AQVFILGMP SRIASVWFGANEVSTACSVAVFGNQLG
IAIGFLVPPVLVPNIEDRDELAYHISIMFYIIGGVATLLLLILVIIVFKEKPKYPPSRAQSLSYALTSPDASYLGS
IARLFKNLNFVLLVITYGLNAGAFYALSTLLNRMVIWHYPGEEVNAGRIGLTIVIAGMLGAVISGIWLD RSKTYK
ETTLVVYIMTLVGMVVYTF TLNLGHLWVVFITAGTMGFFMTGYLPLGF EF AVELTYPESEGISFGLLNISAQVFG
IIFTISQGQIIDNYGTKPGNIFLCVFLTLGAALTAFIKADLRRQKANKETLENKLQE EEEEESENTSKVPTAVSEDH
L

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FIGURE 2244

ATGAGTGTGGACGTGCGAAGAATAAAGTTGTTGTTGGGTATCCTGATGATGGCAAATGTCTTCATTTATTTTATT
ATGGAAGTCTCCAAAAGCAGTAGCCAAGAAAAAATGGAAAAGGGGAAGTAATAATACCCAAAGAGAAGTTCTGG
AAGATATCTACCCCTCCCGAGGCATACTGGAACCGAGAGCAAGAGAAGCTGAACCGGCAGTACAACCCCATCCTG
AGCATGCTGACCAACCAGACGGGGGAGGCGGGCAGGCTCTCCAATATAAGCCATCTGAACACTGCGAACCTGAC
CTGAGGGTACGTCGGTGGTTACGGGTTTTAACAACCTTGCCGGACAGATTTAAAGACTTTCTGCTGTATTTGAGA
TGCCGCAATTATTCAGTCTTATAGATCAGCCGGATAAGTGTGCAAAGAAACCTTTCTTGTTGCTGGCGATTAAG
TCCCTCACTCCACATTTTGCCAGAAGGCAAGCAATCCGGGAATCCTGGGGCCAAGAAAGCAACGCAGGGAACCAA
ACGGTGGTGCAGTCTTCCTGCTGGGCCAGACACCCCGAGAGGACAACCACCCCGACCTTTCAGATATGCTGAAA
TTTGAGAGTGAGAAGCACCAAGACATTCTTATGTGGAACCTACAGAGACACTTTCTTCAACTTGTCTCTGAAGGAA
GTGCTGTTTTCTCAGGTGGGTAAGTACTTCCTGCCAGACACTGAGTTTGTTTTCAAGGGCGATGACGATGTTTTT
GTGAACACCCATCACATCCTGAATTACTTGAATAGTTTATCCAAGACCAAAGCCAAAGATCTCTTCATAGGTGAT
GTGATCCACAATGCTGGACCTCATCGGGATAAGAAGCTGAAGTACTACATCCAGAAGTTGTTTACTCTGGCCTC
TACCCACCCTATGCAGGGGGAGGGGGTTCTCTACTCCGGCCACCTGGCCCTGAGGCTGTACCATATCACTGAC
CAGGTCCATCTCTACCCATTGATGACGTTTATACTGGAATGTGCCTTCAGAACTCGGCCTCGTTCCAGAGAAA
CACAAAGGCTTCAGGACATTTGATATCGAGGAGAAAAACAAAAATAACATCTGCTCCTATGTAGATCTGATGTTA
GTACATAGTAGAAAACCTCAAGAGATGATTGATATTTGGTCTCAGTTGCAGAGTGCTCATTTAAAATGCTAA

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FIGURE 2245

MSVGRRRIKLLLGILMMANVFIYFIMEVSKSSSQEKNGKGEVIIPKEKFWKISTPPEAYWNREQEKLNRQYNPIL
SMLTNQTGEAGRLSNISHLNYCEPDLRVTSVVTGFNNLPDRFKDFLLYLRCRNYSLIDQPDKCAKKPFLLLAIK
SLTPHFARRQAIRESWGQESNAGNQT VVRVFLLGQTPPEDNHPDLS DMLKFESEKHQDILMWNYRDTFFNLSLKE
VLFLRWVSTSCPDTEFVFKGDDDFVNTHHILNYLNSLSKTKAKDLFIGDVIHNAGPHRDKKLYYIPEVVYSGL
YPPYAGGGGFLYSGHLALRLYHITDQVHLYPIDDVYTGMLQKLGLVPEKHKGFRTFDIEEKNKNNICSYVDLML
VHSRKPQEMIDIWSQLQSAHLKC

[illegible]

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FIGURE 2246B

ACACCTTCCAGATGGCACAGCACTTTCCCATGGTCCTCRCTGGCCTCAGTCTCCCTGACCGGCAGTGTGAGGGGA
TGAGCTATAGTGGAGCATGGTACAAGCGACATTCATGAGCTCTGACTTCTTGGTGCCAGGTTGGTGTGAGCCTG
GGCCCGGCCCACTCAGCGGCCACATTGGCCAGCATTCAGCTGCACGTGTGTGCTGCGTGCTTCACATCCTCTAT
TGAGAGTTACAGCAAGTGTTAAACGAGGTGAGTTYACATAACAGGAATTCTGGAAGTGCCTTGAAAACCTAGGACGA
TTGGGCAATATCGGCCTTAACTCCACCTGATGGCAGGTGACCCGGATAGAAAATGGCCCTGCGTTTAGCCAGGAT
GTGGCTCTCCAGCTTGGCTTCAGTGTGATCACTTGTGAGTGCCTTTCTCTTTTCGATAGTGAAATCCTTCTCTAT
ACCTATGTTTTGTTTTGTTGCTCGACGTTGGGAAACAGAATGGGCCAGGGAGGTTGAGTGACTGAAGACCAAGGG
TTGGTGCAGCCTCCTCGCCGCGCTGCGGGGKCTGGGCCGCACAGGCTTCTGCCCTTCTCGGTGTCCAGGCTCCTT
GGGTGATGCTGGAGTTGTCATGGCYGCAGTTCAGTGTGAGATTTTTTACCAGGTATTGCGCTTAAGGGACATGAT
TTTCCATTTTCTTCGCCCCGACAACCTGAATGAAATGGGCACTGTTGATTCCACTTCTGTGAGGAGCTTCGGGG
CTCAGAGAGGTGATGACGTGCCCCAAGGTGACGCAACTCGTGAACAGCCGTGCCTGCCTTGGGCGCAGCTCCGGCG
CCAGAGCTGGGCTCTTCAACACGGCATTTAGCGCAGAAAGTCGTGGTTCAGGCAGTATGGGCCGCTGTGACAAAA
CACCTAAGACTGGGTAGTTTATAAAGAACAGACATTCAGGCCAGGCACGGTGAATCACGCCTGTAATCCCAGCAC
TTTGGGAGGCCGAGGCGCGTGGATCATTGAGGTGAGGAGTTTGAACACAGCCTGGCCAACATGGTGAAACCCCA
TCTCTACTAAAAAAACAAAACCTAGCTGGGGGTGGTGGTGTATGCCTGTGGTCCCAGCTACTTGGGAGGCTAAGGT
AGAAGAATTGCTTGAACCTGGGAGGCAGAGATTGCAGTGAGCCGAGATCACGCCATTGCACTCCAGCCTGGGTGA
CACAGTGAGACTCCATCKCAAAAA

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FIGURE 2247

MNPASDGGTSESIFDLDYASWGIRSTLMVAGFVFYLGVFVVCHQLSSSLNATYRSLVAREKVFWDLAATRAVFGV
QSTAAGLWALLGDPVLHADKARGQQNWCWFHITTATGFFCFENVAVHLSNLIIFRTFDLFLVIHHLFAFLGFLGCL
VNLQVGHYLA MTTLLE MSTPFTCVSWMLLKAGWSESLFWKLNQWLM IHMFHCRMVLT YHMWWVCFWHWDGLVSN
LYLPHLTFLFLVGLALLTLI INPYWTHKKTQQLNFPVDWNFAQPEAKSRPEGNGQLLRKKRP

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FIGURE 2248

CTACTGCCATGGAACTTCTTTATCACTGCCAAGGAGTACTGGATGTTCAAAC TCCGCAACTCCTCCAGCCCAGCC
ACCGGGGAGGACCCTGAGGGCTCAGACATCCTGAACTACTTTGAGAGCTACCTTGCCGTTGCCTCCGCCGTGCCC
TCCATGCTGTGCCTGGTGGCCAACCTCCTGCTTGTC AACAGGGTTGCAGTCCACATCCGTGTCCTGGCCTCACTG
ACGGTCATCCTGGCCATCTTCATGGTGATAACTGCACTGGTGAAGGTGGACACTTCCTCCTGGACCCGTGGCTTT
TTTGGGGTACCAATTGCTGTCATGGTGATCCTCAGCGGTGCCTCCACTGTCTTCAGCAGCAGCATCTACGGCATG
ACCGGCTCCTTTCTTATGAGGAACTCCAGGCACTGATATCAGGAGGAGCCATGGGCGGGACGGTCAGCGCCGTG
GCCTCATTGGTGGACTTGGCTGCATCCAGTGATGTGAGGAACAGCGCCCTGGCCTTCTTCCTGACGGCCACCATC
TTCTCGTGCTCTGCATGGGACTCTACCTGCTGCTGTCCAGGCTGGAGTATGCCAGGTACTACATGAGGCCTGTT
CTTGCGGCCCATGTGTTTTCTGGTGAAGAGGAGCTTCCCCAGGACTCCCTCAGTGCCCCCTTCGGTGGCCTCCAGA
TTCATTGATTCCCACACACCCCTCTCCGCCCCATCCTGAAGAAGACGGCCAGCCTGGGCTTCTGTGTCACTAC
GTCTTCTTCATCACCAGCCTCATCTACCCGCGCTCTGCACCAACATCGAGTCCCTCAACAAGGGCTCGGGCTCA
CTGTGGACCACCAAGTTTTTTCATCCCCCTCACTACCTTCCTCCTGTACAACCTTGCTGACCTATGTGGCCGGCAG
CTCACCGCCTGGATCCGGGTGCCAGGGCCCAATAGCAAGGCGCTCCCAGGGTTCTGTCTCCTCCGGACCTGCCTC
ATCCCCCTCTTCGTGCTCTGTAACTACCAGCCCCGCTCCACCTGAAGACTGTGGTCTTCAGTCCGATGTGTAC
CCCGCACTCCTCAGCTCCCTGCTGGGGCTCAGCAACGGCTACCTCAGCACCCCTGGCCCTCCTCTACGGGCCTAAG
ATTGTGCCCAGGGAGCTGGCTGAGGCCACGGGAGTGGTGATGTCTTTTATGTGTGCTTGGGCTTAACACTGGGC
TCAGCCTGCTCTACCCTCCTGGTGCACCTCATCTAGAAGGGAGGACACAAGGACATTGGTGCTTCAGAGCCTTTG
AAGATGAGAAAGAGAGTGAGGAGGGCTGGGGGCCATGGAGGAAAGGCCTAAAGTTTCACTTGGGGACAGAGAGCA
GAGCACACTCGGGCCTCATCCCTCCCAAGATGCCAGTGAGCCACGTCCATGCCATTCCGTGCAAGGCAGATATT
CCAGTCATATTAAACAGAACACTCCTGAGACAGTTGAAGAAGAAATAGCACAAATCAGGGGTACTCCCTTCACAGC
TGATGGTTAAACATTCCACCTTCTTTCTAGCCCTTCAAAGATGCTGCCAGTGTTTCGCCCTAGAGTTATTACAAAGC
CAGTGCCAAAACCCAGCCATGGGCTCTTTGCAACCTCCCAGCTGCGCTCATTCCAGCTGACAGCGAGATGCAAGC
AAATGCTCAGCTCTCCTTACCCTGAAGGGGTCTCCCTGGAATGGAAGTCCCCTGGCATGGTCAGTCCTCAGGCCC
AAGGCTCAAGTGTGCACAGACCCCTGTGTTCTGTGGGTGAACAAC TGCCCACTAACCAGACTGGAAAACCCAGAA
AGATGGGCCTTCCATGAATGCTTCATCCCAGAGGGACCAGAGGGCCTCCCTGTGCAAGGGATCAAGCATGTCTGG
CCTGGGTTTTTCAAAAAAAGAGGGATCCTCATGACCTGGTGGTCTATGGCCTGGGTCAAGATGAGGGTCTTTCAGT
GTTCTGTTTACAACATGTCAAAGCCATTGGTTCAAGGGCGTAATAAATACTTGCGTATTC

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FIGURE 2249

MFKLRNSSSPATGEDPEGSDILNYFESYLAVASAVPSMLCLVANFLLVNRVAVHIRVLASLTVILAIFMVITALV
KVDTSWTRGFFAVTIVCMVILSGASTVFSSSIYGMTGSFPMRNSQALISGGAMGGTVSAVASLVDLAASSDVRN
SALAFFLTATIFLVLCMGLYLLLSRLEYARYYMRPVLAHVFSGEEELPQDSLAPSVASRFIDSHTPPLRPILK
KTASLGFCVTYVFFITS LIYPAVCTNIESLNKSGSLWTTKFFIPLTTFFLLYNFADLCGRQLTAWIRVPGPNSKA
LPGFVLLRTCLIPFLVLCNYQPRVHLKTVVFQSDVYPALLSSLLGLSNGYLSTLALLYGPKIVPRELAEATGVVM
SFYVCLGLTLGSACSTLLVHLI

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FIGURE 2250

GCCCCCGCCGCGCCCCGACCAGCCCGGCCTCGGGCAGCCACTCACCAGGTGTCCCCGTCCGCGTCCCTTCTCCCCGG
GTCCCCGGCCATGGCGCTGAGTGAACCCATCCTGCCGTCCCTTCTCCACTTTCGCCAGCCCGTGCCGCGAGCGCGGC
CTGCAGGAGCGCTGGCCGCGCGCCGAACCCGAGTCCGGCGGCACCGACGACGACCTCAACAGCGTGCTGGACTTC
ATCCTGTCCATGGGGCTGGATGGCCTGGGCGCCGAGGCCGCCCGGAGCCGCCGCCGCCGCCCGCCCGCCCTGCG
TTCTATTACCCCGAACCCGGCGCGCCCCCGCCCTACAGCGCCCCCGCGGGTGGCCTGGTGTCTGAGCTGCTGCGA
CCCGAGCTGGATGCGCCGCTGGGGCCCGCACTGCACGGCCGCTTTCTGCTGGCGCCGCCCGGCCGCTGGTCAAG
GCCGAGCCCCCTGAAGCGGACGGCGGCGGCGGCTACGGCTGCGCCCCCGGGCTGACCCGTGGACCGCGCGGCCTC
AAGCGCGAGGGCGCCCCGGGCCCGGCGGCTTCGTGCATGCGAGGTCCCGGGGGCCGCCCGCCGCCGCCCGAC
ACACCGCCGCTCAGCCCCGACGGCCCCGCGCGCCTGCCCGCGCCCGGTCCGCGCGCCTCCTTCCCGCCGCTTTC
GGTGGCCCTGGTTTCGGCGCGCCCGGGCCCGGCCTGCATTACGCGCCGCTGCGCCCCAGCCTTCGGTCTCTTC
GACGACGCGGCCGCCGCCGCGGCAGCCCTGGGCCTGGCGCCCCCGCCGCCCGCGGTCTCCTCACGCCGCTGCG
TCCCCGCTGGAGCTGCTGGAGGCCAAGCCAAAGCGCGGCCGCCGCTCTTGGCCCCGAAACGCACCGCCACTCAC
ACCTGCAGCTACGCGGGCTGCGGCAAGACCTACACCAAGAGTTCGCATCTGAAGGCGCATCTGCGCACGCACACA
GGTGAGAAGCCCTACCACTGCAACTGGGACGGCTGCGGCTGGAAGTTTGC GCGCTCAGACGAGCTCACGCGCCAC
TACCGAAAGCACACGGGCCACCGGCCATTCCAGTGCCATCTGTGCGATCGTGCTTTTCGCGCTCCGATCACCTG
GCGCTGCACATGAAACGGCACATGTAGCCGGGACGCCCCCGCCACCTGCGGCGGGCCGTGGCGGGTCCCACGCG
CCGGGCGCGGCCCCCTCCCAAAGTGTGACTGGTATTTATTGGACCCAGAGAACC GGCCGGGCACAGCGTGGCTA
CAGAGGGTCTCCCTCGATGACGACGACGACGACGCCACCACCCAGCCCCGTCTGTGACTGAAGGCCCGGTGGG
AAAAGACCACGATCCTCCTTGACGAGTTTTGTTTTTCAAAATGGTGCAATAATTTAAGTGGCATCTTCTCTCCA
CCGGGTCTACACTAGAGGATCGAGGCTTGTGATGCCTTGTGAGAAATAAGGGCCTTAATTTGTACTGTCTGCGGC
ATTTTTTATAATATTGTATATAGTGACTGACAAATATTGTATTACTGTACATAGAGAGACAGGTGGGCATTTTTG
GGCTACCTGGTTCGTTTTTATAAGATTTTGCTGGGTGGTTTTTTTTTTAATTAAAAAGTTTTGCATCTTTT

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FIGURE 2251

MALSEPILPSFSTFASPCRERGLQERWPRAEPESGGTDDDLNSVLDFIILSMGLDGLGAEAAPEPPPPPPPPAFYY
PEPGAPPPYSAPAGGLVSELLRPELDAPLGPAHGRFLLAPPGRLVKAEPPEADGGGGYGAPGLTRGPRGLKRE
GAPGPAASCMRGPGGRRPPPPDTPPLSPDGPRLPAPGPRASFPPPFGGPGFGAPGPGLHYAPPAPPAFGLFDDA
AAAAAALGLAPPAARGLLTPFASPLELLEAKPKRGRRSWPRKRTATHTCYAGCGKTYTKSSHLKAHLRTHTEK
PYHCNWDGCGWKFARSDELTRHYRKHTGHRPFQCHLCDRAFSRSDHLALHMKRHM

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FIGURE 2252

GGACCACAGCTCCTCCCGTGCATCCACTCGGCCTGGGAGGTTCTGGATTTTGGCTGTCGAGGGAGTTTGCCTGCC
TCTCCAGAGAAAGATGGTCAATGAGGCCCTGTGGAGTCTGCTTCTCTGGGAAGCCCTACTTCCCATTACAGTTAC
TGGTGGCCCAAGTGCTGAGCAAAGTCGGGGGCTCGGTGCTGCTGGTGGCAGCGCGTCCCCCTGGCTTCCAAGTCCG
TGAGGCTATCTGGCGATCTCTCTGGCCTTCAGAAGAGCTCCTGGCCACGTTTTTCCGAGGCTCCCTGGAGACTCT
GTACCATTTCCCGCTTCTGGGCCGAGCCCAGCTACACAGCAACCTCAGCCTGGAGCTCGGGCCGCTGGAGTCTGG
AGACAGCGGCAACTTCTCCGTGTTGATGGTGGACACAAGGGGCCAGCCCTGGACCCAGACCCTCCAGCTCAAGGT
GTACGATGCAGTGCCAGGCCCGTGGTACAAGTGTTTATTGCTGTAGAAAGGGATGCTCAGCCCTCCAAGACCTG
CCAGGTTTTCTTGTCTGTGGGGCCCCAACATCAGCGAAATAACCTATAGCTGGCGACGGGAGACAACCATGGA
CTTTGGTATGGAACCACACAGCCTCTTCACAGACGGACAGGTGCTGAGCATTTCCTGGGACCAGGAGACAGAGA
TGTGGCCTATTCTGTCATTGCTCTCAACCCTGTGAGCTGGGACTTGGCCACAGTCACGCCCTGGGATAGCTGTCA
TCATGAGGCGACACCAGGGAAGGCCTCCTACAAAGATGTGCTGCTGGTGGTGGTGCCTGTCTCGCTGCTCCTGAT
GCTGGTTACTCTCTTCTGCTGGCCTGGTGGCCCTGCTCAGGGAAAAAGAAAAGGATGTCCATGCTGACAG
AGTGGGTCCAGAGACAGAGAACCCCTTGTGAGGATCTGCCATTAAGGACAATATGAAGTATGCTGCTGGACTAT
CAGTAACCCCACTGCACAGGCACACGATGCTCTGGGACATAACTGGTGCCTGGAAATCACCATGGTCTCATATC
TCCCATGGGAATCCTGTCTGCTCGAAGGAGCAGCCTGGGCGAGCCATCACACCACGAGGACAGGAAGCACCAGC
ACGTTTTCACACCTCCCCCTTCCCTCTCCCATCTTCTCATATCCTGGCTCTTCTCTGGGCAAGATGAGCCAAGCAG
AACATTCCATCCAGGACACTGGAAGTTCTCCAGGATCCAGATCCATGGGGACATTAATAGTCCAAGGCATTCCCT
CCCCCACCCTATTCTATAAAGTATTAACCAACTGGCACCAAGGAATTGCCTCCAGCCTGAGTCTAGGCTCTAAA
AGATATTACATATTTGAAGTAAAGAGGAAGTCTGAGTCACCCATGCCAGCATCAGCTTCAGCCCCAGACCCTGC
AGTTTGAGATCTGATGCTTCTGAGGGCCAAGGCATTGCTGTAAAGAAAAGGTCTAGAAATAGGTGAAAAGTGAGAG
GTGGGGGACAGGGGTTTTCTTTCTGGCCTAAGGACTTTTCAAGTAATCAGAGTTTATGGGGCCCTCAAAGGTAAAT
TGCAGTTGTAGACACCGAGGATGTTTGACAACCCATGTTTGAGATGGGCACCGTTTTTGAGGAAACACCATATTA
ATAGACATCCTCACCATCTCCATCCGCTCTCAGCCTCCTGCAGGATCTGGGAGTGAGGGTGGAGAGTCTTTCT
CACGCTCCAGCACAGTGGCCAGGAAAAGAAATACTGAATTTGCCCCAGCCAACAGGACGTTTCTTGACAACTTCA
AGAAAAGCAGCTCAGCTCAGGATGAGTCTTCTGCTGAAACTGAGAGAGTGAAGAACCATAAAAACGCTATGCAG
AAGGAACATTATGGAGAGAAAGGGTACTGAGGCACTCTAGAATCTGCCACATTCAATTTCAAATGCAAATGCAGA
AGACTTACCTTAGTTCAAGGGGAGGGGACAAAGACCCACAGCCCAACAGCAGGACTGTAGAGGTCACCTCTGACT
CCATCAAACCTTTTTATTGTGGCCATCTTAGGAAAATACATTCTGCCCCTGAATGATTCTGTCTAGAAAAGCTCTG
GAGTATTGATCACTACTGGA AAAACACTTAAGGAGCTAACTTACCTTCGGGGATTATTAGCTGATAAGGTTAC
AGTTTCTCTCACCAGGTGTAAGTGGATTTTTCTGGGGCTCAATCCAGTCTTGATAACAGCGAGGAAAGAGGT
ATTGAAGAAACAGGGGTGGGTTTGAAGTACTATTTTCCCAGGGTGGCTTCAATCTCCCCACCTAGGATGTCAGC
CCTGTCCAAGGACCTTCCCTCTTCTCCCCAGTTCCCTGGGCAATCACTTCACCTTGGACAAAGGATCAGCACAG
CTGGCCTCCAGATCCACATCACCCTCTTCCACTCGATTGTTCCAGATCCTCCCTGCCTGGCCTGCTCAGAGGT
TCCCTGTTGGTAACCTGGCTTTATCAAATTCTCATCCCTTCCCACACCCACTTCTCTCTATACCTTCCCCA
AGATTACCTGAACAGGGTCCATGGCCACTCAACCTGTCAGCTTGCACCATCCCCACCTGCCACCTACAGTCAGGC
CACATGCCTGGTCACTGAATCATGCAAAACTGGCCTCAGTCCCTAAAAATGATGTGGAAAGGAAAGCCAGGATC
TGACAAATGAGCCCTGGTGGATTTGTGGGGAAAAAATACACAGCACTCCCCACCTTTCTTTCTGTTTATCTCCAGG
CCCCACCTCAGATCAAAGCAGCTCTGGATGAGATGGGACCTGCAGCTCTCCCTCCACAAGGTGACTCTTAGCAAC
CTCATTTTCGACAGTGGTTTGTAGCGTGGTGCACCAGGGCCTTGTGTAACAGATCCACACTGCTCTAATAAAGTTC
CCATCCTTAATGACTCACTTGTCAACTAGTGGACTAATTAACCCTCCACCAAAAAAACACAAAGTGCTTCTGTGA
GACCAATTTTGTGCTAATGAGCATTGAGACTGATGCTTTGTAAGTCACACCACAACAAATATTGATTGAGGGCGC
TGCATGTGCTGGGTACATTTCTTGGCACTTGGGAATCAGTAGTCAAGCGAAACCTTGCCTTTGAGAGTTTATGG
TCTGGATAATATAAATAAACAAGTAAGCATAAAAA

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FIGURE 2253

MVMRPLWSLLLWEALLPITVTGAQVLSKVGGSVLLVAARPPGFQVREAIWRS LWPSEELLATFFRGSLETLYHSR
FLGRAQLHSNLSLELGPLESGDSGNFSVLMVDTRGQPWTQTLQLKVYDAVPRPVVQVFI AVERDAQPSKTCQVFL
SCWAPNISEITYSWRRETTMDFGMEPHSLFTDGQVLSISLGP GDRDVAYSCIVSNPVS WDLATVTPWDSCHHEAA
PGKASYKDVLLVVVPVSLLLMLVTLFSAWHWCPCSGK KKKDVHADRVGPETENPLVQDLP

FIGURE 2254

[illegible]

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FIGURE 2255

MSDIGDWFRSIPAITRYWFAATVAVPLVGKLGGLISPAYLFLWPEAFLYRFQIWRPITATFYFPVGP GTGFLYLVN
LYFLYQYSTRLETGAFDGRPADYLFMLLFNWICIVITGLAMDMQLLMIPLIMSVLYVWAQLNRDMIVSFWFGTRF
KACYLPWVILGFNYIIGGSVINELIGNLVGHLYFFLMFRYPMDLGGRNFLSTPQFLYRWLPSRRGGVSGFGVPPA
SMRRAADQNGGGGRHNWGGFRLGDQ

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FIGURE 2256A

CAGCGCTGCTCCCCGGGCGCTCCTCCCCGGGCGCTCCTCCCCAGGCCTCCCGGGCGCTTGGATCCCCGGCCATCTC
CGCACCCCTTCAAGTGGGTGTGGGTGATTTCTGGCGGGGGGAGCAGCCAGGTGAGCCCAAGATGCTGCTGCGCTC
GAAGCCTGCGCTGCCGCCGCCGCTGATGCTGCTGCTCCTGGGGCCGCTGGGTCCCCTCTCCCCTGGCGCCCTGCC
CCGACCTGCGCAAGCACAGGACGTCGTGGACCTGGACTTCTTCACCCAGGAGCCGCTGCACCTGGTGAGCCCCCTC
GTTCTGTCCGTCACCATTGACGCCAACCTGGCCACGGACCCGCGGTTCTTCATCCTCCTGGGTTCTCCAAAGCT
TCGTACCTTGGCCAGAGGCTTGTCTCCTGCGTACCTGAGGTTTGGTGGCACCAAGACAGACTTCCTAATTTTCGA
TCCCAAGAAGGAATCAACCTTTGAAGAGAGAAGTTACTGGCAATCTCAAGTCAACCAGGATATTTGCAAATATGG
ATCCATCCCTCCTGATGTGGAGGAGAAGTTACGGTTGGAATGGCCCTACCAGGAGCAATTGCTACTCCGAGAACA
CTACCAGAAAAAGTTCAAGAACAGCACCTACTCAAGAAGCTCTGTAGATGTGCTATACACTTTTGCAAACCTGCTC
AGGACTGGACTTGATCTTTGGCCTAAATGCGTTATTAAGAACAGCAGATTTGCAGTGGAAACAGTTCTAATGCTCA
GTTGCTCCTGGACTACTGCTCTTCCAAGGGGTATAACATTTCTTGGGAAGTGGCAATGAACCTAACAGTTTCCT
TAAGAAGGCTGATATTTTCATCAATGGGTGCGAGTTAGGAGAAGATTTTATTCAATTGCATAAACTTCTAAGAAA
GTCCACCTTCAAAAATGCAAACCTCTATGGTCTGATGTTGGTCAGCCTCGAAGAAAGACGGCTAAGATGCTGAA
GAGCTTCTGAAGGCTGGTGGAGAAGTGATTGATTGATTACATGGCATCACTACTATTTGAATGGACGGACTGC
TACCAGGGAAGATTTTCTAAACCCTGATGTATTGGACATTTTTATTTCATCTGTGCAAAAAGTTTTCCAGGTGGT
TGAGAGCACCCAGGCCTGGCAAGAAGGTCTGGTTAGGAGAAAACAAGCTCTGCATATGGAGGCGGAGCGCCCTTGCT
ATCCGACACCTTTGCAGCTGGCTTTATGTGGCTGGATAAATTGGGCCTGTCAGCCCGAATGGGAATAGAAGTGGT
GATGAGGCAAGTATTTCTTGGAGCAGGAAACTACCATTTAGTGGATGAAAACCTTCGATCCTTTACCTGATTATTG
GCTATCTCTTCTGTTCAAGAAATTGGTGGGCACCAAGGTGTTAATGGCAAGCGTGCAAGGTTCAAAGAGAAGGAA
GCTTCGAGTATACCTTCATTGCACAAACACTGACAATCCAAGGTATAAAGAAGGAGATTTAACTCTGTATGCCAT
AAACCTCCATAATGTACCAAGTACTTGCGGTTACCCTATCCTTTTTCTAACAAGCAAGTGGATAAATACCTTCT
AAGACCTTTGGGACCTCATGGATTACTTTCCAAATCTGTCCAACCTCAATGGTCTAACTCTAAAGATGGTGGATGA
TCAAACCTTGCCACCTTTAATGGA AAAACCTCTCCGCCAGGAAGTTCACTGGGCTTGCCAGCTTTCTCATATAG
TTTTTTTGTGATAAGAAATGCCAAAGTTGCTGCTTGCATCTGA AAAATAAAATATACTAGTCCTGACACTGAATTT
TTCAAGTATACTAAGAGTAAAGCAACTCAAGTTATAGGAAAGGAAGCAGATACCTTGCAAAGCAACTAGTGGGTG
CTTGAGAGACACTGGGACACTGTCAGTGCTAGATTTAGCACAGTATTTTGATCTCGCTAGGTAGAACACTGCTAA
TAATAATAGCTAATAATACCTTGTTCCAAATACTGCTTAGCATTTTGATGTTTTACTTTTATCTAAAGTTTTGT
TTTGTTTTATTATTTATTTATTTATTTATTTTGTGACGGAGAGAGATTCCATCTCAAAAAACAAGTTATTAAAA
ATGTATATGAATGCTCCTAATATGGTCAGGAAGCAAGGAAGCGAAGGATATATTATGAGTTTTAAGAAGGTGCTT
AGCTGTATATTTATCTTTCAAATGTATTAGAAGATTTTAGAATCTTTCTTCATGTGCCATCTCTACAGGCAC
CCATCAGAAAAAGCATACTGCCGTTACCGTGAAACTGGTTGTAAAAGAGAACTATCTATTTGCACCTTAAAAGA
CAGCTAGATTTTGTGATTTTCTTCTTTCCGTTTTCTTTGTGACGAATAATATGTGAGAGGACAGATTGTTAGAT
ATGATAGTATAAAAAATGGTTAATGACAATTCAGAGGCGAGGAGATTCTGTAACTTAAAATTACTATAAATGAA
ATTGATTTGTCAAGAGGATAAATTTTAGAAAACACCCAATACCTTATAACTGTCTGTAAATGCTTGCTTTTTCTC
TACCTTTCTTCTTGTTCAGTTGGGAAGCTTTTGGCTGCAAGTAACAGAACTCCTAATTCAAATGGCTTAAGC
AATAAGGAAATGTATATTCCACATAACTAGACGTTCAAACAGGCCAGGCTCCAGCACTTCAGTACGTCACCAGG
GGATCTGGGTTCCTCCAGCTCTCTGCTCTGCCATCTTTAGCGCTGGCTTCATTCTCAGACTCTGGTAGCATGAT
GGCTGTAGCTGTTTCATGGGCCCTTCAAACCTCATAGCAACCAGAGGAAGAAAATGAGCCATTTTTTGTAGTCTC
CTTCATAGACTTGAATAACTCTTTTTTCAGAGCTTCTCACAGCAAACCTCTCCTCATGTCTCCTCATGTCTTATTG
TTCAGAAAATGGGTAATGTGGCCATTTACCCAGTCACTGCCAACAAACAGAGGTTCTTATAATTGTCTCTGAGTA
ACCTTTTGGAAATGGAGAGGGTGTGGTTCAGTCTACAACTGAACACTGCAGTTCTGCGCTTTTTTACCAGTGAAAA
AATGTAATTATTTTCCCCTCTTAAGGATTAATATTCTTCAAATGTATGCCTGTTATGGATATAGTATCTTTAAAA
TTTTTTATTTTAATAGCTTTAGGGGTACACACTTTTTTGCTTACAGGGGTGAATTGTGTAGTGGTGAAGACTCGGC
TTTTAATGTACTTGTACCTGAGTGATGTACATTGTACCCAATAGGTAATTTTTTCATCCATTACCTCCTTCCGC
CCTCTTCCCTTCTGAGTCTCCAACATCCCTTATACCACTGTGTATGTTCTTGTGTACCTACAGCTAAGCTTCCAC
TTATAAGTGAGAACATGCAGTATTTGGTTTTCCATTCTGAGTTACTTCCCTTAGGATAACAGCCCCCAGTTCCG
TCCAAGTTGCTGCAAAATACATTATTCTTCTTTATGGCTGAGTAATAGTCCATGGTACATATATACCACATTTTC
TTTATCCACTTATCAGTTGATGGACACTTAGGTTAATTCCATTCAATTTCAATTTAAGTATATTTGTAAGG

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FIGURE 2256B

AGCTAAAGCTGAAAATTAAATTTTAGATCTTTCAATACTCTTAAATTTTATATGTAAGTGGTTTTTATATTTTCA
CATTGAAATAAAGTAATTTTATAACCTTGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2257

MLLRSKPALPPPLMLLLLGPLGPLSPGALPRPAQAQDVVDLDFFTQEPLHLVSPSFLSVTIDANLATDPRFLILL
GSPKLRTLARGLSPAYLRFGGKTDFLIFDPKKESTFEERSYWQSQVNQDICKYGSIPPDVEEKLRLWPYQEQ
LLREHYQKKFKNSTYSRSSVDVLYTFANCSGLDLIFGLNALLRTADLQWNSSNAQLLLDYCSSKGYNISWELGNE
PNSFLKKADIFINGSQLGEDFIQLHKLLRKSTFKNAKLYGPDVGQPRRKTAKMLKSFLKAGGEVIDSVTWHHYLL
NGRTATREDFLNPDVLDIFISSVQKVFQVVESTRP GKKVWLGETSSAYGGGAPLLSDTFAAGFMWLDKLGLSARM
GIEVVMRQVFFGAGNYHLVDENFDPLPDYWLSLLFKKLVGTVLMA SVQGSKRRKLRVYLHCTNTDNPRYKEGDL
TLYAINLHNVTKYLRLPYPFSNKQVDKYLLRPLGPHGLLSKSVQLNGLTLKMVDDQTL PPLMEKPLRPGSSLGLP
AFSYSFFVIRNAKVAACI

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FIGURE 2258

GGCTGCGCTTCCCTGGTCAGGCACGGCACGTCTGGCCGGCCGCCAGG**ATG**CAGGCCCGCACAAGGAGCACCTGT
ACAAGTTGCTGGTGATTGGCGACCTGGGCGTGGGGAAGACCAGTATCATCAAGCGCTACGTGCACCAGAACTTCT
CCTCGCACTACCGGGCCACAATCGGCGTGGACTTCGCGCTCAAGGTGCTCCACTGGGACCCGGAGACTGTGGTGC
GCCTGCAGCTCTGGGATATCGCAGGTCAAGAAAGATTTGGAACATGACGAGGGTCTATTACCGAGAAGCTATGG
GTGCATTTATTGTCTTCGATGTCACCAGGCCAGCCACATTTGAAGCAGTGGCAAAGTGGAAAAATGATTTGGACT
CCAAGTTAAGTCTCCCTAATGGCAAACCGGTTTCAGTGGTTTTGTTGGCCAACAAATGTGACCAGGGGAAGGATG
TGCTCATGAACAATGGCCTCAAGATGGACCAGTTCTGCAAGGAGCACGGTTTCGTAGGATGGTTTGAAACATCAG
CAAAGGAAAAATATAAACATTGATGAAGCCTCCAGATGCCTGGTGAAACACATACTTGCAAATGAGTGTGACCTAA
TGGAGTCTATTGAGCCGGACGTCGTGAAGCCCCATCTCACATCAACCAAGGTTGCCAGCTGCTCTGGCTGTGCCA
AATCC**TAG**TAGGCACCTTTGCTGGTGTCTGGTAGGAATGACCTCATTGTTCCACAAATTGTGCCTCTATTTTTAC
CATTTTGGGTAAACGTCAGGATAGATATACCACATGTGGCAAGCCAAAGATCTATGCCTCTGTTTTTTCAATGAG
AGAGAAATAGCAAATGTTCTTTCTATGCTTTCTCACCATCATCACAGTGTTTACAAACTTTTGAAAAATATTTAG
TCTGTTACAACTTCTGTCTAGCTGACCAAAATCCTGCAGGGCCACAGTCGGCACTGTTATTTGCTTCTTTT
AATCAGCAAAGGCCTCAAGTCTTAAATAAAAGGGGAGAAGAACAACAACTAGCTGTCAAGTCAAGGACTGGCTTTC
ACCTTGCCCTGGTGTCTTTTTCCAGATTTCAATATATTCTCTGATGGCCTGACAGGCCTATTAAGTAGATGTGAT
ATTTTCTTCCAAGATGACCTCCATTCTCGGCAGACCTAAGAGTTGCCTCTGAGTTAGCTCTTTGGAATCGTGAAC
ACAGGTGTGCTATATTGTCCTTGTCTAACTGTCACCTTGCCATGGCCTGAATGTTGGCTTAACTGAATATTGTAT
GAAAAGACATGCCTCCATATGTGCCTTTCTGTTAGCTCTCTTTGACTCAAGCTGTGGGGCTCCTCTATACATGCT
ATACATGTAATATATATTATATATATTTTTTGCAAGTGAACAATAAAACATTAAAAGATAAAA

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FIGURE 2259

MQAPHKEHLYKLLVIGDLGVGKTSIIKRYVHQNFSSHYRATIGVDFALKVLHWDPETVVRLQLWDIAGQERFGNM
TRVYYREAMGAFIVFDVTRPATFEAVAKWKNDLDSKLSLPNGKPVSVVLLANKCDQGDVLMNNGLKMDQFCKEH
GFVGWFETSAKENINIDEASRCLVKHILANECDLMESIEPDVVKPHLTSTKVASCSCGCAKS

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FIGURE 2260

GGCACGAGGGCGGGTGGGAAGCCGTGTCTCGCAGTCGTGGACTCGTGCAGCTGGGGCGTCCGCAGCCGCTCGTCA
CCCGCGTGATGCTGTTTCTGGCGTTGGGCAGCCCGTGGGCGGTTCGAACTGCCTCTCTGCGGAAGGAGGACTGCAT
TGTGTGCGGCCGCCGCGCTCCGAGGTCCCCGGGCCTCTGTCTCCCGGGCGTCCCTCCAGCAGCGGGCCTTCGGGGC
CGGTAGCCGGCTGGAGTACGGGGCCTTCGGGAGCCGCGCGCCTTCTCCGGCGTCCGGGTGCGAGCGCAGATCCCTG
TTTATTGGGAAGGATATGTTTCGATTCTTAAATACGCCATCTGACAAATCAGAAGATGGAAGGCTAATTTATACTG
GCAATATGCGCCCGAGCAGTGTTTGGTGTGAAATGTTTCTCTTATTCTACGAGTCTGATTGGCCTTACATTTCTGC
CATACATTTTTACACAAAATAATGCTATTTCTGAAAGTGTGCCTCTGCCTATTCAAATCATATTCTATGGCATCA
TGGAAGCTTTACGGTGATCACCCAGTGCTGCTTCACTTTATTACAAAAGGCTATGTCATTTCGATTGTACCATG
AGGCCACAACAGACACTTATAAAGCCATTACCTACAATGCTATGCTTGCAGAAACGAGTACAGTGTTCACCAGA
ATGATGTGAAGATTCCAGATGCTAAACATGTATTTACCACATTTTATGCTAAAACAAAATCACTGTTAGTTAATC
CAGTGCTCTTTCCAAACCGTGAAGACTATATCCATCTAATGGGTATGACAAAGAAGAATTTATTTTGTATATGG
AAGAAACCAGTGAAGAGAAAACGGCATAAAGATGACAAATGAGCCTATTTGTTAGTGTTTCGTGCTCAAATGTGATT
TACGTTTTAATGTATAATAATAAAATTGCCTTTTGCATTCCGTTAGTGACTGATTGTTAAAAATAATTTGAAATT
ATCAAAGCTTTTTAATTTCCAGAGAATGATGTTTGTGTTATAATAAAACAAGCTATGTTTGAAAACCAAATGTAGT
ATCTACCATTTCGTGTTTTAGAAAGGTATGTGAATAAATATGTTTCATGCTAGTATAAGAGTTCTGTGTTACTGTGG
TTGACTCTAAACTGGGGATCTGATGTCAGTAGCAAATGGGAGAGTTGCTTTATTCTTTGTGTATGGATTTTTCTA
AGTGTATAAATATTTTCCGACATTAAAAGACATTTTCTCTTTGAGGAAGACACAGTCATAGGTGGTGCGGAGCTG
TGGTCCACCTGCTCCTGCTCCTGACTCACTGCTCTTTGCTGTTGCCTGAGGACCAAGTCTGTGAGGAAGCTGGCT
AGGAAGCCTTGCAGCAGCCATGGCTTTTAAACATAACCAGAAAAACACCCGTGGAGTCAGAGGTGGCAATTCACCG
AATTCATATCACTCTAACGAGTTGCAACGTAAAATCCCTGGATAAGGTGTGTGCTGACTTGATCTGAGGAGCAAA
GGAAAAGAATCAGTGAAAGGACCAGTTTGAATGCCTACCAAGACTTTGAGAATCACTACAAGAAAACTTACGGT
GAAGTTTCTAAGGCATGGGATCGTTTCCAGATGAGAATCCACAAGCGACTCATTGACTTGCGCAGTCCTCAGATA
GTTAAGCAGATTACTTCCATCAGTATTGAGCCAGGAGTTGAGATGGAAGTCACCATTGCAAATGCTTAAGTCAAC
TGTTTTCATAAATTGATTACCAGTTGTTAAAAAATTTTCAAAAAACCGCAAATTTCAAGAAATTCACAAATTAT
GGGAGCAGTTTTAAGTCTTCTTTGGTTTCAGAACACAGGTTTTTGCCTAACCCCTGGCATGATTGCCATAAGAAC
ATACATGTACAGTTGAACTGGTGGTTAGCTATACGGGAAATGTTAAGTAGTGTTGTCTTCAGTATCTTAATTTGT
TTCTGCAACTGTGCACTCCTCCCTTGGTGGCACCCCTATGGGTGTAGGAAAACCACTGTTATTAAACAGGTGAAAA
ATAAAAAATTTTCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2261

MARAVFGVKCFSYSTSLIGLTFLPYIFTQNNAISESVP LPIQIIFYGIMGSFTVITPVLLHFITKGYVIRLYHEA
TTDTYKAITYNAMLAETSTVFHQNDVKIPDAKHVFTTFYAKTKSLLVNPVLFPNREDYIHLMGYDKEEFILYMEE
TSEKRRHKDDK

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FIGURE 2262

CGGAATTGGTGGGTTCTTGGTCTCACTGAGTTCTAGAATGAAGCTGCAGACCCTCGCAGTGAGTGTTACAGCTCT
TAAGGCTCTCTGACTGCCACCCCTGCCTGCCTGCCCCGGCCCTGCACAAC**CATGC**AGCCCTCCGGCCTCGAGGGTCC
CGGCACGTTTGGTCGGTGGCCTCTGCTGAGTCTGCTGCTCCTGCTGCTGCTGCTCCAGCCTGTAACCTGTGCCTA
CACCACGCCAGGCCCCCCCCAGAGCCCTCACCACGCTGGGCGCCCCCAGAGCCCACACCATGCCGGGCACCTACGC
TCCCTCGACCACACTCAGTAGTCCCAGCACCCAGGGCCTGCAAGAGCAGGCACGGGCCCTGATGCGGGACTTCCC
GCTCGTGGACGGCCACAACGACCTGCCCCCTGGTCCTAAGGCAGGTTTACCAGAAAGGGCTACAGGATGTAACT
GCGCAATTTAGCTACGGCCAGACCAGCCTGGACAGGCTTAGAGATGGCCTCGTGGGCGCCAGTTCTGGTCAGC
CTATGTGCCATGCCAGACCAGGACCGGATGCCCTGCGCCTCACCTGGAGCAGATTGACCTCATACGCCGCAT
GTGTGCCTCCTATTCTGAGCTGGAGCTTGTGACCTCGGCTAAAGCTCTGAACGACACTCAGAAATTGGCCTGCCT
CATCGGTGTAGAGGGTGGCCACTCGCTGGACAATAGCCTCTCCATCTTACGTACCTTCTACATGCTGGGAGTGCG
CTACCTGACGCTCACCCACACCTGCAACACACCCTGGGCAGAGAGCTCCGCTAAGGGCGTCCACTCCTTCTACAA
CAACATCAGCGGGCTGACTGACTTTGGTGAGAAGGTGGTGGCAGAAATGAACCGCCTGGGCATGATGGTAGACTT
ATCCCATGTCTCAGATGCTGTGGCACGGCGGGCCCTGGAAGTGTACAGGCACCTGTGATCTTCTCCCACTCGGC
TGCCCGGGGTGTGTGCAACAGTGCTCGGAATGTTCTGATGACATCCTGCAGCTTCTGAAGAAGAACGGTGGCGT
CGTGATGGTGTCTTTGTCCATGGGAGTAATACAGTGCAACCCATCAGCCAATGTGTCCACTGTGGCAGATCACTT
CGACCACATCAAGGCTGTCAATTGGATCCAAGTTCATCGGGATTGGTGGAGATTATGATGGGGCCGGCAAATTCCC
TCAGGGGCTGGAAGACGTGTCCACATACCCGGTCTGATAGAGGAGTTGCTGAGTCGTGGCTGGAGTGAGGAAGA
GCTTCAGGGTGTCTTCTGTGAAACCTGCTGCGGGTCTTCAGACAAGTGGAAGGTACAGGAAGAAAACAAATG
GCAAAGCCCCTTGGAGGACAAGTTCCCGGATGAGCAGCTGAGCAGTTCCTGCCACTCCGACCTCTCACGTCTGCG
TCAGAGACAGAGTCTGACTTCAGGCCAGGAACTCACTGAGATTCCCATACACTGGACAGCCAAGTTACCAGCCAA
GTGGTCAGTCTCAGAGTCTCCCCCACATGGCCCCAGTCTTGCAGTTGTGGCCACCTTCCCAGTCTTATTCT
GTGGCTCT**TGA**TGACCCAGTTAGTCCTGCCAGATGTCACTGTAGCAAGCCACAGACACCCACAAAGTTCCCCCTGT
TGTGCAGGCACAAATATTTCTTGAAATAAATGTTTTGGACATAGAAAAA

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FIGURE 2263

MQPSGLEPGTFFGRWPLLSLLLLLLLLLQPVTCAYTTPGPPRALTTLGAPRAHTMPGTYAPSTTLSSPSTQGLQEQ
ARALMRDFPLVDGHNDLPLVLRQVYQKGLQDVNLRNFSYGQTSLDRLRDGLVGAQFWSAYVPCQTQDRDALRLTL
EQIDLIRRMCASYSLELVTSAKALNDTQKLACLIGVEGGHSLDNSLSILRTFYMLGVRYLTLTHTCNPWAESS
AKGVHSFYNNISGLTDFGEKVVAEMNRLGMMVDLSHVSDAVARRALEVSQAPVIFSHSAARGVCNSARNVPDDIL
QLLKKNGGVVMVSLSMGVICNP SANVSTVADHFDHIKAVIGSKFIGIGGDYDGAGKFPQGLEDVSTYPVLIEEL
LSRGWSEELQGVLRGNLLRVFRQVEKVQEENKWQSPLEDKFPDEQLSSSCHSDLSRLRQRQSLTSGQELTEIPI
HWTAKLPAKWSVSESSPHMAPVLAVVATFPVLILWL

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FIGURE 2264

ATTGGTGAAGCTCTAACGGCTGTTTTGACTGGCGTAGCCGGAGCCGGCGACGTGAGGCGGGCGTTGCTCGCGCGA
CAAGTAGTTGCTGGGACAGCGAAATCGAGGGGTGTGTGTCTAACCTAATGGTCTGCAACCTGGCCTACAGCGGGA
AGCTGGAAGAGTTGAAGGAGAGTATTCTGGCCGATAAATCCCTGGCTACTAGAACTGACCAGGACAGCAGAACTG
CATTGCACTGGGCATGCTCAGCTGGACATACAGAAATTGTTGAATTTTTGTTGCAACTTGGAGTGCCAGTGAATG
ATAAAGACGATGCAGGTTGGTCTCCTCTTCATATTGCGGCTTCTGCTGGCCGGGATGAGATTGTAAAGCCCTTC
TGGGAAAAGGTGCTCAAGTGAATGCTGTCAATCAAAATGGCTGTACTCCCTTACATTATGCAGCTTCGAAAAACA
GGCATGAGATCGCTGTCATGTTACTGGAAGGCGGGGCTAATCCAGATGCTAAGGACCATTATGAGGCTACAGCAA
TGCACCGGGCAGCAGCCAAGGGTAACTTGAAGATGATTTCATATCCTTCTGTACTACAAAGCATCCACAAACATCC
AAGACACTGAGGGTAACACTCCTCTACACTTAGCCTGTGATGAGGAGAGAGTGGAAGAAGCAAACTGCTGGTGT
CCCAAGGAGCAAGTATTTACATTGAGAATAAAGAAGAAAAGACACCCCTGCAAGTGGCCAAAGGTGGCCTGGGTT
TAATACTCAAGAGAATGGTGGAAGGT~~TAA~~ACAGCTTGGATTTATTCTTACTTTGTATGTTGTGTTGTTGTCCCCA
GTGTCCTACAACTAATGTATTTGTGCACAAGACATCATCTATGAATGATGAAGTTTTCTCACCTTCAAAGTCTT
ATAAACATGTTGACTCTTGTTCCCTGCTGAGTTACTTGTTGGAAGCTTACAGCTTGTTTTCCAGGCATCGAATAAC
TGTTGAGATTGTTCTACTGTTGTCGTATATTCTTCTATATTGAATTCGGTTAATTTGGAGTAACTAATTCTGTG
GCTGTTGTGAGTCTTCAGCACCCCTCCCATGTACCTTATATCCCTCTCTGAAACAGAACAGCTCCAATAGCAACAA
GCTAGTTGTTCTGCCAGATGTTTCTATGTGGATTCTGTAATGTTCCCTCCATACAGTTAAAACATCCTAACTTGTT
TTTCAAGCTCACTCAGGCCTACGCCAAACGTTTCTGTTTTTTTTTAACCATGAGGTTTAATTTATTTTTGTGATAG
GAGGGATATTTACATATTTTAGTGGACCACATTTTAAGTTGGATGGTGTGCTCTAAATACTGAAAAACAATAGC
CCATATACCTATGTATTTGTTTTGATGGGTTGTTTACTCTGAAATAAAATGTATGGTTTTCTTAAAGGAAGTT
TTAAAGTACCTATTTTGTGTATCCTGTATTGAAAAGAATGTCAAGCTTGTTAAATGACATGTAACAAAAATGT
ATTTTGATTTGTATTTTCAAGAACTAAAAAATAAAATGTTGAAAG

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FIGURE 2265

MEGCVSNLMVCNLAYSGKLEELKESILADKSLATRTDQDSRTALHWACSAGHTEIVEFLLQLGVPVNDKDDAGWS
PLHIAASAGRDEIVKALLGKGAQVNAVQNQNGCTPLHYAASKNRHEIAVMLLEGGANPDAKDHYEATAMHRAAAKG
NLKMIHILLYYKASTNIQDTEGNTPLHLACDEERVEEAKLLVSQGASIYIENKEEKTPLQVAKGGLGLILKRMVE
G

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FIGURE 2266

GGCACGAGGCTTGTCCCCAGCGCCTGGACTCCCCCTTAACTGCTTGGGAAATGTGACCTTTGCTCTGGGGGGCCT
GGCCCTGCAGGCCCAACCTTCCCTCATCTCTGGCGGCCCTCTTGGGCCTCTGACCCAGCCCCCTCCCGGGGCCAG
GCTCACAGAAGCTGGCTTCTGGGACTGTCTGGGCCCAAGTGGGCACCTGCGCCAGCCCCACCTGTGCCTGGGCT
GTGGCCCTTCTTACAGGGCGCTCACCATGGCCCCGCCGCTCCTGCTGCTGCTGCTGGCCAGTGGAGCGGGCCGC
TGCCCGCTGCCCTGCGTCTGCCAGAACCTGTCCGAGTCGCTCAGCACCCCTCTGTGCCCACCGAGGCCTGCTGTTT
GTGCCGCCCAACGTGGACCGGCGCACAGTGGAGCTGCGGCTGGCTGACAACTTCATCCAGGCCCTGGGGCCCCCT
GACTTCCGCAACATGACGGGACTGGTGGACCTGACACTGTCTCGCAATGCCATCACCCGCATTGGGGCCCCGCGC
TTTGGGGACCTCGAGAGCCTGCGTTCCTCCACCTTGACGGCAACAGGCTGGTGGAGCTGGGCACCGGGAGCCTC
CGGGGCCCCGTCATCTGCAGCACCTCATCTCAGCGGCAACCAGCTGGGCCGCATCGCGCCGGGAGCCTTCGAC
GACTTCTAGAGAGCCTGGAGGACCTGGACCTGTCTTACAACAACCTCCGGCAGGTGCCCTGGGCCGGCATCGGC
GCCATGCCTGCCCTGCACACCCTCAACCTGGACCATAACCTTATTGACGCACTGCCCCAGGCGCCTTCGCCCAG
CTCGGTGAGCTCTCCCGCCTGGACCTCACCTCCAACCGCCTGGCCACGCTGGCTCCGGACCCGCTTTTCTCTCGT
GGGCGTGATGCAGAGGCCTCTCCCGCCCCCTGGTGTGAGCTTTAGCGGGAACCCCTGCACTGCAACTGTGAG
CTGCTGTGGCTGCGGCGGCTGGCGCGGCCGGACGACCTGGAAACGTGCGCCTCCCCGCCCGGCTGGCCGGCCGC
TACTTCTGGGCAGTGCCCCAGGGCGAGTTCTCTGTGAGCCGCCCTCATTGCCCCGCCACACGCAGCGCCTCTGG
GTGCTGGAAGGCCAGCGGGCCACGCTGCGGTGCCGGGCCCTGGGTGACCCCGCGCCTACC**ATG**ACTGGGTGGT
CCTGACGACCGGTTGGTTGGCAACTCCTCCCGAGCCCGGGCTTTCCCCAACGGGACCTTAGAGATTGGGGTGACC
GGCGCTGGGGACGCTGGGGGCTACACCTGCATCGCCACCAACCCTGCTGGTGAGGCCACAGCCCAGTAGAACTG
CGGGTGCTGGCCTTGCCCCATGGTGGGAACAGCAGTGCCGAGGGGGGCCGCCCGGGCCCTCGGACATCGCCGCC
TCCGCTCGCACTGCTGCCGAGGGTGAGGGGACGCTGGAGTCTGAGCCAGCCGTGCAGGTGACGGAGGTGACCGCC
ACCTCAGGGCTGGTGAGCTGGGGTCCCGGGCGGCCAGCCGACCCAGTGTGGATGTTCCAAATCCAGTACAACAGC
AGCGAAGATGAGACCCTCATCTACCGGATTGTCCCAGCCTCCAGCCACCCTTCCTGCTGAAGCACCTCGTCCCC
GGCGCTGACTATGACCTCTGCCTGCTGGCCTTGTACCGGCCGCTGGGCCCTCTGACCTCACGGCCACCAGGCTG
CTGGGCTGTGCCCATTTCTCCACGCTGCCGGCCTCGCCCCCTGTGCCACGCCCTGCAGGCCACAGTGTGGCGGG
ACCCTGACCGTGCCGTGGGGGTGTGCTGGTGGCTGCCTTACTGGTCTTCACTGTGGCCTTGCTGGTTTCGGGGC
CGGGGGGCCGAAATGGCCGCCTCCCCCTCAAGCTCAGCCACGTCCAGTCCCAGACCAATGGAGGCCCCAGCCCC
ACACCCAAGGCCACCCGCCGCGAGCCCCCGCCCCGGCCGACGCGCAGCTGCTCTCTGGACCTGGGAGATGCC
GGGTGCTACGGTTATGCCAGGCGCCTGGGAGGAGCTTGGGCCCCGACGGAGCCACTCTGTGCATGGGGGGCTGCTC
GGGGCAGGGTGCCGGGGGGTAGGAGGCAGCGCCGAGCGGCTGGAAGAGAGTGTGGT**GTGA**TGGACGGGCAGCTTC
CTGTGTGCTCCAAGGGATGAGCCTCGTGGGGCAGAGGGCCCCGGGGCCGCCCTGGCCTGGGAGTCCCTCCCTGG
TTTTTATTCTCAGTACCTCAGGCTCCCCTGTGTACTTGAGGGGGCAGGGAGCCCTTTCCTCGGTTCTGGCCTCCA
GACCAGGGTAAGGGCAGGCCCTCCAACAGGTGCTCACAGCCACCGAGGCAGGGGCTGCAGCCACCCACTGGGAG
TCTTGTTTTTATTATAATAAAATTGTTGGGGACACCTCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2267

MHWVGPDDRLLVGNSSRARAFPNGTLEIGVTGAGDAGGYTCIATNPAGEATARVELRVLALPHGGNSSAEGGRP
SDIAASARTAAEGEGTLESEPAVQVTEVTATSGLVSWGPGRPADPVWMFQIQYNSSSEDETLIYRIVPASSHHFLL
KHLVPGADYDLCLLALSPAAGPSDLTATRLLGCAHFSTLPASPLCHALQAHVLGGTLTVAVGGVLVAALLVFTVA
LLVRGRGAGNGRLPLKLSHVQSQTNGGSPSTPKAHPPRSPPFRPQRSCSLDLGDAGCYGYARRLGGAWARRSHSV
HGLLLGAGCRGVGGSERLEESV

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FIGURE 2268A

AGACGCGTAGGCTGGCAGCCCGCTGAGCCCGCCAGACTCCGCCGCCGTGGGAGCCGGCCGCTGGGAGCCCGTGC
CTATGGGACCGCGCTGAGCCGCCCCGCTGGCGGGGGAGCAGCGCGGTGAGG**ATG**GAGGGGCCGGCAGAGTGGGGC
CCCGAGGCGGGCGCTGGGCCCCGAGGCGGTGCTGCGCTTCCTGGCGGAGCGCGGGGGCCGGGCCCTGCACGCCGAG
CTGGTGCAGCACTTCAGGGGCGCCCTGGGCGGCGAACCAGGAGCAGCGCGCCCGCGCCCGCGCGCACTTCAAGGAG
CTGGTGAACGCCGTGGCCACTGTGCGCGTCGATCCCGCCGACGGCGCCAAGTACGTGCACCTCAAGAAGAGGTTT
TGTGAAGGGCCGTCCGAGCCCTCCGGGGACCCGCCGCAATCCAGGTGACCGCCGAGCCCGAGGCCCCGACGGC
CCTGCCGGGCCCCGAGGCGCGGATCGGCTCCCGGACGCGGGCGGGCCCCGGAGTCGCTCCCTGGACAGGGCCCGGAG
CTGGGCGAGGGAGAGCCCCCGCCCCGCGCACTGGCCGCCCTGAGCGCCGGGGCTCGCAGGAAGAACTCGCGG
CGCGACGTGCAGCCCCCTACCGCGGACTCCAGCCCCGGGGCCAGCGAGGACCTGGAGCTCCCGCCACATGGCTGC
GAGGAGGCGGACAGGGGCAGCTCCCTTGTGGGGGTACCGCACAGAGGCCGGCCCCGCCAGAACCTCCGTGACCTG
GTGATGGGCAGCTCCCCGCAGCTGAAGAGGAGCGTGTGTCCCGGGGGCAGCAGCCCGGGCAGCTCCTCCGGGGGA
GGACGCGGCAGAGGCGGGGGCGACTCAGACAGCGCATCGGTGGCCTCGTCGTCCGCGGAGGAGGAGAGCAGCGGC
GGAGGCTCCGTGACGTGGACCCCTGGAGCACGCGTGGATGCTCTCTGCCTCCGATGGCAAGTGGGACAGCCTG
GAGGGCTTGCTCACCTGCGAGCCCGGCTGCTGGTCAAGCGGGACTTCATTACCGGCTTCACTTGCCTGCGCTGG
GCCGCAAGCACGGCAGGCAGGAGCTTGTGGCCATGCT**AGT**CAACTTCGCCAACAAACACCAGCTGCCGGTGAACA
TGGACGCCAGGACGAGCGGGGGTTACACCGCCCTGCACCTGGCAGCCATGCACGGCCACGTGGAGGTGGTGAAGC
TGCTGGTGGGGCCCTACGACGCCGATGTGGACATCAGGGACTACAGTGGGAAAAAGGCCTCCAGTACCTGAGTC
GGAGCATCGCCGAGGAGATCAAGAACCTGGTGGGAGCCCTGGACGAGGGTGACGGGGAAAGCGCCGCGGGTAGCG
GCGGCGGGCGCTGGAGGCTTTCAAAGGTGCTTCCCTCGCATCTCATCACCTACAACTCTCACACGCCCTAGAAG
ATGGAGGGGACCATCACCACTACCACTCGGCTGAGGGGTGGGTGCGGAGGCAAAGCCAAGGATCCAGGGCGCA
AAGCCTCGGGCAGCTCTAGTGGACGTATAAAACCCAGACTCAACAAAAATCCGATTGAGAACCAGATCGTCCACA
CCACACCCTCTTTTACGGGACCCAGAGCAGCCGCTGGAGGGCAGGGGGGAGGAGGGAGTGGGGGAGGAACGACCTG
TTAAAGGCCACTCGCCCTTACATTGAGACCAAAGTCCAATGTATTTGGGTAAAAATTGCTTCTTTTAGAAAAATG
CAAAGGTTTATTTGTCTTAATAAATTGAATACTAGGTGTTGTAAGGAAGTGAGACCAGAAGGACAAGCTAAATTA
TGCATTCTTACTTGAGGGATCGGAATGGATGGGGCGGAGTTCTCTTCGGGCTAGCCTTCTGGGAAAAGTGGATGT
CTTTTTTACAGATTATCATACCTTGACCTGTACCTCTTCTCTGCCCTCCACTTCCCTGCCCTGGAGTCCGTTTT
TGGAGGCTAGAAATGTATCTAAATTGGGGGAACAGAATGAATGAATTAATGAATGAGAGTTCTTTTGCTTTAACC
ATTCTTGATGCCTGCAAAGTAAGGAATAATGCAGTTTTTATGTATCTGATTTTATAAGGGGTTACTCTTTCAAG
AGTAACAAAAAATGCAAACCTGTAATGAACTACATTGTATTTCTAAGTGTGAAAACGACAGGCTGCCCCGTTTT
TACTAATTGCATTTGCATTTTAAGGTACTACTGAAGGTGAGATCAAAGTTGAAATGCAAAATACTAATTAGAGA
ATAATGTGAATAAAATGGGAATCTTCTTGGTATTTTATGTGTATTGTAAGTAGCAGTTAAATTATTTTTTAAAA
GCAATTTAGTTTTAATCACTGAACAAAAGAAACAGGCAACATTCACCTTCTGTAGTATGGTTTCCACCTATCTCT
AACACCACTATTAAGGTACACCAGTGTAAAGGTACATTAATACTACACAAAATTTTATTTAAAGAGAACCTTA
GCAGCCTATGATAGTTTTCAATAAAATGTTGCCTCTCTTTCGGATTCTCACTAATTTTGTACTATTCTAAAAG
TTTGAATTTGCTGGGGTGTTTATTCTGAGGATTATTTAACCATTTGTTCTATTTGGCATAACCCATTTAATGGTG
CTTAGAGCTGAATTACCTACAGAACTGTTTCTGGTTTAAATAATTAGCACAAATTGGCCTAAGTATTCATGAGC
CCATGTTTCTGTGAAGTAATTATTAACCAACTTAATGATTCTTATGTAAGGTACACTTTTTTATTTAATACATT
GGTAGTCTCTATGACTTGTAGCAATGTTTTACAAATGTTTAAATGCTAACTTAATTTTCCAAGCTTTTCTTGA
CAATTAGATACCTATCCTGTAGTTACTGAAAATCTGGGTAGTAAATCTACCCAATTAATAATGGCACTTTATAAAA
GGGAATAGAGAAGAGATGGGACTATTTCTATATTTAAATGCTGCTGGCTATTCCTTTGTATATAAATGAAAAATA
CCATTCATTAAAATTAAGTACTCGTTTTAAGTATGGTTCTTAATTACATTTTATTATATTAGAGTAAATGG
CTTCATAACTACTTTTAAATTTAACCACAAAGCATATTAATCTGTTTGTATAAGGTTGGAAACAATTTTGTAG
AGGGACTAATTTAAACAAGTCCTCTTTAGTCTTTTGGGTGCGGTAGTTGCTGAAACCTAAGTACCTGCAGCCTA
CAGGATAAGGAAGTTCACAGCCTGCGGGGTGAATGAACCCATGTGTGAAGTGCACAGAGCAATTCATAGAAAATG
CATAGAAAATTTGTAACACTTTGGTCACATCTGTCTCTAGATGGTCATTGAATTTGTTTAAAGATGGATGAAAGGC
CAGGCATGGTGGCTCATGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGCAGGTGGATCACTTGAGGCCAGGAGT
TTGAAACCAGCCTGGCCAACATGGTGAAAACCTGTCTCTACTAAAAATACAAAATTAGCCGAGCGTGGTGGTG
GTGCCTGTAGTCCCAGCTACTTAGGAGGCTGAGGCATGAGAATCACTTAAACCTGAGAGGTGGAGGTGCACTTG

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FIGURE 2268B

AGCCAAGATCACGACACTGCACTCCAGCCTGGGCAACGGAGACTCTGTCTCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2269

MEGPAEWGPEAALGPEAVLRFLAERGGRALHAELVQHFRGALGGEPEQRARARAHFKELVNAVATVRVDPADGAK
YVHLKKRFCEGPSEPSGDPPRIQVTAEPEAPDGPAGPEARDRLPDAAAPESLPGQGRELGEGEPPAPAHWPPLSA
GARRKNSRRDVQPLPRTAPGPSEDLELPPHGCEEADRGSSLVGATAQRPARQNLRLDLMGSSPQLKRSVCPGGS
SPGSSSGGGRGRGGGSDSDASVASSSAEEESSGGGSVTLDPLEHAWMLSASDGKWDLSLEGLLTCEPGLLVKRDFI
TGFTCLRWAASTAGRSLWPC

2557/2825
FIGURE 2270

ACAGCAATAGTGCAGAATCCAGAAATGGATGTCCTCTTTGTAGCCATCTTTGCTGTGCCACTTATCCTGGGACAAG
AATATGAGGATGAAGAAAGACTGGGAGAGGATGAATATTATCAGGTGGTCTATTATTATACAGTCACCCCCAGTT
ATGATGACTTTAGTGCAGATTTACCATTTGATTACTCCATATTTGAGTCAGAGGACAGGCTGAACAGGTTGGATA
AGGACATAACAGAAGCAATAGAGACTACCATTAGTCTTGAAACAGCACGTGCAGACCATCCGAAGCCTGTAAGT
TGAAACCAGTAACAACGGAACCTAGTCCAGATCTGAACGATGCCGTGTCCAGTTTGCGAAGTCCTATTCCCCTCC
TCCTGTCGCGTGCCTTTGTTTCAGGTGGGGATGTATTTCATGTAGAAAGGTGGAAGAAGGCTGCTATGACTCTTTGG
ATGGGAGTCTGGCAAGAGGAAATTGGAAGATAAAATAAATAATAAGTGAAATAAAGAAAAAAAAAAAAA

2558/2825
FIGURE 2271

MDVLFVAIFAVPLIILGQEYEDEERLGEDEYYQVVYYTVPSTYDDFSADFTIDYSIFESEDRLNRLDKDITEAIE
TTISLETARADHPKPVTVKPVTTPEPDLNDAVSSLRSPIPLLLSRAFVQVGMVFM

2559/2825
FIGURE 2272

GAATTCCGGGCACCCCTCGAGCGAGCGAGCTAGCCAGCAGGCATCGAGGGGGCGCGGCTGCCGTCCGGACGAGAC
AGGCGAACCCGACGCGAGAAGAGTCCACCACCGGACAGTCAGGTAGCCGCCGCGTCCCTCGCACACGCAGAGTCGG
GCGGCGCGGGGTCTCCCTTGCGCCCCGGCCTCCGCCCTCTCCTCCTCTCCTTTCCCTTCTTCTCGCTGTCCTCTC
CTCTCTCGCTGCCCCGCGTTTGCGCAGCCCCGGGCCATGTCCGACGCGTCCCTCCGCAGCACATCCACGATGGAGC
GTCTTGTGCCCCGTGGGACCTTCCCAGTACTAGTGCGCACACAGCGCCTGCCGCAGCCTCTTCGGGCCGGTGGACC
ACGAGGAGCTGAGCCGCGAGCTGCAGGCCCCGCTGGCCGAGCTGAACGCCGAGGACCAGAACCGCTGGGATTACG
ACTTCCAGCAGGACATGCCGCTGCGGGGCCCTGGACGCCTGCAGTGGACCGAAGTGGACAGCGACTCGGTGCCCG
CGTTCTACCGCGAGACGGTGCAGGTGGGGCGCTGCCGCCTGCTGCTGGCGCCGCGGCCCGTCCGCGTCCGCGGTGG
CTGTCAGCCCGCCCCCTCGAGCCGGCCGCTGAGTCCCTCGACGGCCTCGAGGAGGCGCCGGAGCAGCTGCCTAGTG
TCCCGGTCCCGGCCCGGCGTCCACCCGCCCCCAGTCCCGGTCTTGGCTCCAGCCCCGGCCCCGGCTCCGGCTC
CGGTCGCGGCTCCGGTCGCGGCTCCGGTCGCGGTCCGCGTCTGGCCCCGGCCCCGGCCCCGGCCCCGGCTCCGG
CTCCGGCCCCGGCTCCAGTCGCGGCCCGGCCCCAGCCCCGGCCCCGGCCCCGGCCCCGGCCCCGGCCCCGGCC
CGGCCCGGACGCGGCGCCTCAAGAGAGCGCCGAGCAGGGCGCGAACCAGGGGCAGCGCGGCCAGGAGCCTCTCG
CTGACCAGCTGCACTCGGGGATTTTCGGGACGTCCCGCGGCCGGCACCGCGGCCGCCAGCGCCAACGGCGCGGCGA
TCAAGAAGCTGTCCGGGCCTCTGATCTCCGATTTCTTCGCCAAGCGCAAGAGATCAGCGCCTGAGAAGTCGTCCG
GCGATGTCCCCGCGCCGTGTCCCTCTCCAAGCGCCGCCCTTGGCGTGGGCTCGGTGGAGCAGACCCCGCGCAAGA
GGCTGCGGTTGAGCCAATTTAGAGCCCAAAGAGCCCCGAGGGAACCTGCCGGGGCAGCGGACGTTGGAAGGGCGCT
GGGCTCGGCTGGGACCGTTTATGTAGCAGCAACCGGCGGCGGCTGCCGCAGAGCAGCGTTTCGGTTTTGTTTTTA
AATTTTGAAAAGTGTGCAATGTATTAATAACGTCTTTTTATATCTAAATGTATTCTGCACGAGAAGGTACACTGG
TCCCAAAGTGTAAGCTTTAAGAGTCATTTATATAAAATGTTTAATCTCTGCTGAAACTCAGTACAAAAAACCG
GGATTCCGGCC

2560/2825
FIGURE 2273

MSDASLRSTSTMERLVARGTFFVLVRTSACRSLFGPVDHEELSRELQARLAELNAEDQNRWDYDFQQDMPLRGPG
RLQWTEVDSDSVPAFYRETVQVGRCRLLLAPRPVAVAVAVSPPLEPAAESLDGLEEAPQLPSVPVPAPASTPPP
VPVLAPAPAPAPAPVAAFPVAVAVLAPAPAPAPAPAPAPVAAFPAPAPAPAPAPAPAPDAAPQESAE
QGANQGQRGQEPLADQLHSGISGRPAAGTAAASANGAAIKKLSGPLISDFFAKRKRSAPPEKSSGDVPAPCPSPSA
APGVGSVEQTPRKRLR

2561/2825
FIGURE 2274

GCCGGCTCCAGTTAGAGCTCGGGTCTCCTCGCCACAGCTCCGAGTCTTTCGTTCTGGGAGGCCAGGCGGCTTCG
CGTTCTGAGAATAAACAGAACCTCTGTTGCTCTGCGACTTGCAGGCACTGGGAGATTCTGAGCTAAGACGCCAGG
GCATCCCGGAAGCTGGGAAAATGGGACIGTTGACATTACAGGGATGTGGCCGTAGAATTCTCTTTGGAGGAGTGGGA
ACACCTGGAACCAGCTCAGAAGAATTTGTATCAGGATGTGATGTTAGAAAACCTACAGAAACCTGGTCTCTCTGGG
TCTTGTGTCTCTAAGCCGACCTGATCACCTTTTTTGAACAAAGGAAAAGAGCCTTGGAATGTGAAGAGTGAGGA
GACAGTAGCCATCCAGCCAGATGTGTTTTTCGATTATAACAAGGACCTGTTGACAGAGCACTGCACAGAAGCTTC
ATTCCAAAAAGTGATATCGAGGAGACATGGGAGCTGTGATCTTGAGAATTTACATTTAAGAAAAAGGTGGAAAAG
GGAGGAGTGTGAAGGGCACAATGGATGTTATGATGAAAAGACTTTTAAATATGATCAATTTGATGAATCCTCTGT
TGAAAGTTTGTTCACCAGCAAATACTTTCTTCTGTGCCAAAAGCTATAACTTTGATCAATATAGGAAGGTCTT
TACTCATTTCATCATTGCTTAATCAACAAGAGGAAATAGATATTTGGGAAAACATCACATATATGATAAACTTC
AGTGTATTTTAGGCAGGTCTCTACTCTAAATAGTTACCGAAATGTTTTATTGGAGAGAAAAATTATCATTGCAA
TAATTCTGAAAAACCTTGAACCAAAGCTCAAGCCCTAAAAATCATCAGGAAAATTATTTCTAGAAAAACAATA
CAAATGTAAAGAATTTGAGGAAGTCTTTCTTCAGAGTATGCATGGGCAAGAGAAACAAGAACAGTCTTACAAATG
TAATAAATGTGTAGAAGTTTGTACCCAGTCATTAACCATATTTCAACATCAGACCATCCATATCAGAGAAAACCTC
ATATAGCTATAACAAATATGATAAAGATCTTAGTCAGTCATCAAATCTTAGAAAGCAGATAATCCATAATGAAGA
GAAACCATAACAAATGTGAAAAATGTGGGATAGCTTAAACCATAGTTTGCACCTTACTCAACATCAGATCATTCC
TACCGAAGAGAAAACCTATAAATGGAAAGAATGTGGCAAGGTCTTTAACCTTAAGTGTAGTTTATACCTTACTAA
ACAGCAGCAAATGATACTGGAGAAAACCTTTACAAATGTAAAGCATGTAGCAAATCTTTTACTCGTTCTCCAA
TCTTATTGTGCATCAGAGAATTCACACTGGAGAGAAAACCATACAAATGTAAAGAATGTGGCAAAGCCTTTTCGCTG
TAGTTTCATACCTTACTAAACATAAGCGAATTCATACTGGAGAGAAAACCTTATAAATGTAAAGAATGTGGAAAAGC
TTTTAACCGTAGTTTCATGCCTTACTCAACATCAGACAACTCATACAGGAGAAAAACTTTACAAATGTAAAGTATG
TAGCAAATCTTATGCTCGTTCTTCAAATCTTATTATGCATCAGAGAGTTCATACTGGAGAGAAGCCTTATAAATG
TAAAGAATGTGGCAAAGTCTTTAGCCGTAGTTCTTGCCTTACTCAACATCGGAAAATTCATACTGGAGAAAATCT
TTACAAATGCAAAGTATGTGCTAAACCTTTTACTTGTCTTCTCAAATCTTATTGTGCATGAGAGAATTCATACTGG
AGAGAAACCTATAAATGTAAAGAATGTGGCAAAGCCTTTTCCTTATAGTTACACCTTATTTCGACATCATCGAAT
TCATACTGGAGAAAAACCATACAAATGTAAAGCATGTAGCAAATCTTTTAGTGACTCCTCAGGTCTTACTGTGCA
TCGGCGAACTCATACTGGAGAGAAACCTTACATGTAAAGAATGTGGCAAAGCCTTTAGTTATAGTTTCAGATGT
TATTCAGCATCGGAGAATTCATACTGGCCAGAGACCCTACAAATGTGAAGAATGTGGCAAAGCCTTCAACTATAG
GTCATACCTCACTACACATCAGAGAAGTCATACTGGAGAGAGACCCTACAAATGTGAAGAATGTGGCAAAGCCTT
CAACTATAGGTCATACCTCACTACACATCGGAGAAGACATACTGGAGAGAGACCCTACAAATGTGATGAATGTGG
TAAAGCCTTCAGCTATAGGTCATACCTCACTACACATCGGAGAAGTCATAGTGGAGAGAGACCCTACAAATGTGA
AGAATGTGGCAAAGCCTTTAACTCTAGGTCATACCTCATTGCACATCAGAGAAGTCATACTAGAGAAAAACTTTA
AAAAATGTAAAACATGGAGCAGATTTTTTACTTGTACCCATGTCTTATTGTGCATCAGATAATTTATATGGGAGT
GAAACCTACAAATGTTAAGAATGTGGCATAACCTTTAACTATTTTCAAGCCTTACACAATAGCAGAGAATATAA
ACTGAAAAAATCCATACAAATATTAAAAATGTGGCAAATTATTTTAACTGTGCTCAACCCTTACTCAAGATAAT
CCATACTAGAGAAACCTATAGATGTAAAAATGTGAAAAGTTTTATTCAAATATCAAACCTTATGAGTCACCTAG
GGGTTTCATAGAAAAGGAAGTTTGCAGATGCAATAAATGTGAGGAAGTATTTAATAAAAAATGAAGTCTAAATGT
GTCAGAGAATTTATGTGAGAAAGGACTAAAGCACAGACACTTTCAGCCTTTATACTAAATAAGAGTATTTTTTGT
ACAGAATAATCTAAAGGCAAATAATTAGATAATTTATTTGCTTATATGTTTTAAAGTAGCAAGAACATTGATGT
TTTGACAGGTATATTTTCATAGATACTTCATTTGTATTTACAGTATTTGAGGTTTTTGGAAAGCAAATATTATTTA
TATAATTCAGCTTTCAAATCTGTTGCTGCTTTTTCTTAATCCGTGGTGTTCATGTGAAAATATGTGTTCTGTTTT
TTTTTCTGCATCAGAACAATGTGAGGTCATTCTACGTTAATATCATTAAATATCAGCATTTTTTCATGGAAAGTTAA
TGCCAAATGTAAAACACATGAAAATTTTTTAAAAATATGCTCTTTGTGTTTGANTCATTAAACAGTAATATGTGTA
AACATATAGTACATATTTAGGGCATTAGTATTCTATACTAAAGTAAAGAGGAATATTCTGAATTTATTTATTAC
ATCAATTGCTCCTTAAGTAGAAAAACACTGGTCAGTTATTTAAATACTGGCATAACCTTTATAGTACAATGAAGT
AGTAATCTTGAATATTATTTG

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FIGURE 2275

PAPVRARVSSPQLRVFRSGRPRRLRVLRINRTSVALRLAGTGRFVAKTPGHPGSWEMGLLTFRDVAVEFSLEEWEE
HLEPAQKNLYQDVMLENYRNILVSLGLVVSKEPDITFLEQRKEPWNVVKSEETVAIQPDVFSHYNKDLLTEHCTEAS
FQKVISRRHGSCDLENLHLRKRWKREECEGHNGCYDEKTFKYDQFDESSVESLFHQIILSSCAKSYNFDQYRKVF
THSSLLNQEEIDIWGKHIIYDKTSVLFRQVSTLNSYRNVFIDGEKNYHCNNSEKTLNQSSSPKNHQENYFLEKQY
KCKEFEEVFLQSMHGQEKQEQSYKCNKCEVCTQSLKHIHQHTIHIHRENSYSYNKYDKDLSQSSNLRKQIIHNEE
KPYKCEKCGDSLNLHSLHLTQHQIIPTEEEKPYKWKECGKVFNLNCSLYLTKQQQIDTGENLYKCKACSKSFTRSSN
LIVHQRHTGKPYKCKEKGKAFRCSSYLTKHKRIHTGKPYKCKEKGKAFNRSSCLTQHQTHTGKLYKCKVC
SKSYARSSNLIMHQRVHTGKPYKCKEKGKVFSSCLTQHRKIHTGENLYKCKVCAKPFCTFSNLIVHERIHTG
EKPYKCKEKGKAFPYSSHLIRHHRIHTGKPYKCKACSKSFSDSSGLTVHRRHTHTGKPYTCKEGKAFSYSSDV
IQHRRHTGQRPYKCEECGKAFNYRSYLTTHQRSHTGERPYKCEECGKAFNYRSYLTTHRRRHTGERPYKCECG
KAFSYRSYLTTHRRSHSGERPYKCEECGKAFNSRSYLIAHQRSHTREKL

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FIGURE 2276

GCTGGAGGAGCCTCGAGGCTGAGGCTGCCGGGGGGCTGTGGGCTACCGGGCCGCCGGCGCCTCAGCG**ATGT**TTTTA
CTCAGGGCTCCTCACTGAGGGCGGCCGCAAGGAGACCGACATGCGGGAGGCGGCGTCACTGCGACAGCAGCGCCG
GATGAAGCAGGCGGTGCAGTTCATCCACAAGGACTCCGCCGACCTGCTGCCCCCTGGACGGCCTCAAGAAGCTGGG
CTCGTCCAAGGACATGCAACCTCATAATATTCTGCAGAGGCGCCTCATGGAAACCAACCTGTCTAAGCTCCGAAG
CGGTCCCCGTGTCCCTTGGGCCTCTAAGACGAACAAACTCAATCAGGCTAAGTCTGAGGGGCTAAAGAAGTCTGA
GGAGGATGACATGATTTTGGTTTCTTGCCAGTGTGCTGGAAAGGATGTGAAAGCCTTGGTTGACACAGGCTGCCT
ATATAATCTCATCTCTTTGGCCTGTGTGGACAGATTGGGACTCAAGGAGCATGTCAAATCCCACAAGCATGAAGG
AGAAAAGCTTTCTCTACCCCGGCATCTCAAAGTAGTGGGCCAGATTGAGCACCTAGTGATCACACTGGGCTCCCT
CCGCCTGGACTGCCCAGCAGCTGTGGTTGATGACAATGAGAAAACTTGTCCCTTGGTCTACAGACTCTCCGATC
TCTGAAGTGCATCATAAACTTGGATAAGCACCGGCTGATCATGGGGAAGACAGACAAGGAAGAAATCCCTTTTGT
GGAGACAGTCTCTTTGAATGAAGACAACACTTCAGAAGCA**TAACT**TACAGCCTGCAGCATGTCTGCACGTGTGCAT
GCATACACACCGGGTTGACAGATTGAGAAAACTGGGTTTGAACCAAATGCCGTAGTGACTTGCTGTGGACCAAGT
CCTTCCATCTAATAGAAGCTCCAGGGGCTCCTTCCCATTACAGACCTCTCTAGACTATAGTCTATGCTTAGAGATC
TTGTCTGGTTATGGCCATTGTTTTTTACTACTTTGATCACTTAACCTTATAGACCTTTTTTTGACACTGCCAGTCTC
ACTTGTGGCCTATTTCTCTGCTTCTTCCAGGAATTTGCTTTTTATTAGTCAAGTATAGGGGCTGCCAGGTTCTGTG
TCTCCATAGATATATGTGCTTCTTTTCTATAGCTAAATGTATAATAAACAGGAACCTGACCTTTACCTCCTTTC
AGCTGTTTCAAACAGGTGCCAGGATACCTATGTCTTAGAATTAGAGTTTCTTCAAATTGATTCATTGATTTCTCA
AGTATGGATTATGTGAAAGAGCCAGGGACATTATCCATTACAGTCTAACTCTTTCATTTAAAGGTCCAGAGAGG
CAAGTGAATTGTCTAAGTTCATATATTAGGTCAGTGACTGAAGGGACCAAGAACGCAGACCTGATTTCCAAGCCA
AGACTCCCATGCTGCCTCATTTGTATTCAAGCCTTTAACAGGAGGGCAAAGAGGTGAGAATGTGTTAAAAAAAAA
AAAAAAAAA

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FIGURE 2277

MFYSGLLTEGGRKETDMREAASLRQQRRMKQAVQFIHKDSADLLPLDGLKKLGSSKDMQPHNILQRRLMETNLSK
LRSGPRVPWASKTNKLNQAKSEGLKKSEEDDMILVSCQCAGKDVKALVDTGCLYNLISLACVDRLGLKEHVKSHK
HEGEKLSLPRHLKVVGQIEHLVITLGSRLDCPAAVDDNEKNLSLGLQTLRSLKCIINLDKHRLIMGKTDKEEI
PFVETVSLNEDNTSEA

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FIGURE 2278A

AAAATACTTGCCCTTTGGAAAAAATCATTCTGGCGTCCACATTCAGACTGGTTTAGAGGAGAGTAATACTGAAG
ACATGCCCCCCCCGAATCAAGGTAGCAATTGCGGAGATGAAAAGAAATGAGTCCAAAAGATGCTTAAATGTGACCA
TTGAACAGGATTTGACTCATTGGATATGAGGCCATGGAGCAGTGTCTGGCTAGGTGGATGGATGTTGGTGCTGTT
TAGTTAAATAGGAACTGGAAGAGAAGCAGGCTTGCAAGAATGGTAATATTTTGGACGTGTAACCTTGCTCTGGCAA
GATGTTGAAGAGGTAAAGGAGGCAGCACAGCATCATGGGCCCTTGAGGCAGAAAGCCGCTTTGATTTACTCAGAAC
ACCAAATCAGTCTCCATTTTCTTGACTCAGACTACACCAAGAGATTGCTTCCTTCCCTGTGCTTCCTGGCCACT
TGCTACTCTAGCTAGGAAGATCTGCCTCCCTTAGCTGAAGTCTAAGATGTGTAGCTTATTGATGCCTCTCCTCTT
CTTGTTCTGCTGTTGCTGAATATAATGGGGATGCCAGGGCAGACATACCATTCAACTTGAATCTTCCTTACCCAC
TTTGATAGTCTTACATGTCATTGATACCTTGTTTTCTGGTACGCCTAAAAGGAGTAGAAGCTTCAAGTGGTATTT
AAAAGCTTTAAGAAAAGTCAAATTTTTACTTTTTCTTCCCATCTGAGGCATGGATTTATTTTCTTTTTAAAGAA
ATCCAAATTTTTAAAAGAAGGGATCTTATTTTTAAACGAAGATCGATAATATCTACTATGTACTAAATGTCATT
CTTTAAAGTTGTTCCCTCATAATTTAGTAAATTACTTCCTTTTTTAAAAAAGGAAAGAAAGAGTGTTTGCTT
ACAGGCTAACATCACAAACAATAAGTTTCTTCTCATCCATCTCCATTTATAAACTAGTGTGACTGTCTCTGAGC
ACAGTATTAAACCTGGACAGGGAGAGGGAGGGTGTTAGAGAATGAGAGGGAAAGAGAGAGAATACCTACATATAA
GGTGACCTTAAAGAAAAGCCTTTACCCCTTCGGAAGATCTTTTCATTTTCATTTTTCTTTTTCAAACACCAACT
TGTACCAGAGGGAAGATCTTTTTTTAAAGCGTTTCACTAAAATTTGTAAGGAAATAATGAGCTAGATAAAATAT
TACAGTGTTTATTTAATGAATTTACTCATATTTAAATAATATCTAAAAAGAGTAATTTAGGAATATTGAGGCAA
TGAGACTTGAAGGTTATAAATAGTGGCAGTGAGAAAAGGAATATTATAGATAAGCTGTTGAAAAGAAAAGATGCT
AAGTTTTCTAGTGCTTCCTTCTGTTTCCAAGGGATTATAGAAATCGGAGTTTGTTTGACCTGTTTCACAGGCATC
TCCTTTGTGGACTCATTGTGTCTCTTCCTTAGGCTAATAGTCACCATTATCATGGACGGTTGTCTAGTGTTG
AAGCACACTTAACCTGCTTCGTCAGAGGGTACTTGGCATCACCGGTGCACAGCTGGTGTCTAGCAGGAGACTAA
CTAGCTGACACACCGTGCTTTGTTAGCCTAATAATCTTATTTGTTAAAACCTTGCCATTTGTTGGATTTTTCTATT
TTACCCCATTTATAAACTTCTTATTGAGATCAGATGACTTCTGAATAGCATTGCTGTATTTTTCCAAGGTAAAGA
ATATCTTTTTTCAAGTTTTTCTTTCTTTCTTTAATGTCAGAAAATAGAAGAAATCTTTTCTACCGACCTTGTGCCAG
GAGATGTCATGGTCATTCCATTAAATGGGACAATAATGCCTTGATGCTGTGCTTATTAATGGTACCTGCATTG
TAAACGAAAGCATGTTAACAGGAGAAAGTGTTCCAGTGACAAAGACTAATTTGCCAAATCCTTCAGTGGATGTGA
AAGGAATAGGAGATCAATTATATAATCCGGAACACATAAACGACATACTTTGTTTTGTGGGACAACCTGTTATTC
AGACTCGTTTCTACACTGGAGAAGCTCGTCAAAGCCATAGTTGTTAGAACAGGATTTAGTACTTCCAAAGGACAGC
TTGTTGCTCCATATTGTATCCCAAACCAACTGATTTTAACTCTACAGAGATGCCTACTTGTCTTACTATGTC
TTGTGGCAGTTGCTGGCATTGGGTTTATCTACACTATTATTAATAGCATTTTAAATGAGGTACAAGTTGGGGTCA
TAATTATCGAGTCTCTTGATATTATCACAATTACTGTGCCCCCTGCACTTCCTGCTGCAATGACTGCTGGTATTG
TGTATGCTCAGAGAAGACTGAAAAAATCGGTATTTCTGTATCAGTCTCAAAGAATAAATATTTGTGGACAGC
TCAATCTTGTGTTGCTTTGACAAGACTGGAACCTAACTGAAGATGGTTTAGATCTTTGGGGGATTCAACGAGTGG
AAAATGCACGATTTCTTTCACCAGAAGAAAATGTGTGCAATGAGATGTTGGTAAAATCCCAGTTTGTGCTTGTA
TGGCTACTTGTCAATTCATTACAAAAATTGAAGGAGTGCTCTCTGGTGATCCACTTGATCTGAAAATGTTTGAGG
CTATTGGATGGATTCTGGAAGAAGCAACTGAAGAAGAAACAGCACTTCATAATCGAATTATGCCCACAGTGGTTC
GTCTCCCAAACAACTGCTTCCTGAATCTACCCCTGCAGGAAACCAAGAAATGGAGCTGTTTGAACCTCCAGCTA
CTTATGAGATAGGAATTGTTGCCAGTTCCCATTTTCTTCTGCTTTGCAACGTATGAGTGTGGTTGCCAGGGTGC
TGGGGGATAGGAAAATGGACGCCTACATGAAAGGAGCGCCCCGAGGCCATTGCCGGTCTCTGTAAACCTGAAACAG
TTCTGTGCGATTTTCAAACGTTTGGGAAGACTTCACTAAACAGGGCTTCCGTGTGATTGCTCTTGACACAGAA
AATTGGAGTCAAACCTGACATGGCATAAAGTACAGAATATTAGCAGAGATGCAATTGAGAACAACATGGATTTTA
TGGGATTAATTATAATGCAGAACAAATTAAAGCAAGAACCCCTGCAGTACTTGAAGATTTGCATAAAGCCAACA
TTCGCACCGTTCATGGTACAGGTGACAGTATGTTGACTGCTGTCTCTGTGGCCAGAGATTGTGGAATGATTCTAC
CTCAGGATAAAGTGATTATTGCTGAAGCATTACCTCCAAAGGATGGGAAAGTTGCCAAAATAAATTGGCATTATG
CAGACTCCCTCACGCAGTGCAGTCATCCATCAGCAATTGACCCAGAGGCTATTCCGGTTAAATTGGTCCATGATA
GCTTAGAGGATCTTCAAATGACTCGTTATCATTTTGAATGAATGGAAAATCATTCTCAGTGATACTGGAGCATT
TTCAAGACCTTGTTCCTAAGTTGATGTTGCATGGCACCCTGTTTGCCCGTATGGCACCTGATCAGAAGACACAGT
TGATAGAAGCATTGCAAAATGTTGATTATTTTGTGGGATGTGTGGTATGGCGCAAATGATTGTGGTGCTTTGA

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FIGURE 2278B

AGAGGGCACACGGAGGCATTTCCCTTATCGGAGCTCGAAGCTTCAGTGGCATCTCCCTTTACCTCTAAGACTCCTA
GTATTTTCCTGTGTGCCAAACCTTATCAGGGAAGGCCGTGCTGCTTTAATAACTTCCTCCTGTGAATTAGCACTAT
TTTCTATAGTTACTTATTCTCTGGATCATTTTTATAATTTCCATATTAATTTCAAGTATGCTCGTGTTATTCTTCA
GTGATTTCCACAATTGTGCATTTTATTCTTTGGTTTAAAGTACTGAAGCATATAATGAAAGTAATTGCTAAGTAGC
AGCTTAAAAATTCAATTATCCGATTGTATTTAACATCTTTAAGAGCATGATCATAAAGAGCTATTTTTGACACCC
CCCCCCCCTTTTTTAACATTTAGAGTTAGTAAGGGTTTTATATCTCTTCTGTCCATATTGTTTTCAAAGGAATG
AGGTGTTTAGGTGGCTGGAAAAGCATTTGTAGGAAGTTAGATTTGAATATAGACAAGGTGGGTATTACAGTTGA
GAATGTTATTTGAAGAATGCCTGTGAAGCCAGGTGTGGGTCTACTCAGTGCCATAGATAGACTGAGTCTTCTCT
CGTAGGTTACCATTACATAGTAATTTTGATTCTGAATTTACATTAAATTATTTGAGTTTATACAGACCTAAATT
TTAAATCTGTACATATATTATTTTGATGTATTAAGATGAATATTGCTGATTTAAATTTTATTTATGCACATACT
TAAAGGACAGAAATGTCTGGGAAAGTAATTGTTAAATAATGATATGTAACTTTTTAACTTTTTAAATAAATAACA
AGATTTTTAATGTGTGTCTCCCTCAGGGTTGTTTAAAGTTTTTTTTCTCCCTCAAGTATAAATAGTGGTAACTAT
ATGTTTTGTATCTTCTAGCACCAACTGCTGTAAAGCAATGCTGCAAATAATGCTTGAATACAAGTGGCTAAGCCA
ACAACAGAATAAATACTTTTATAGTAGTTTTATAATCCTGAAATTCGAAAGCTTTCCCAATTGCACTTGCATCTA
AACAAAACCTGTTGCAGTTTTTACTCTATTTATTTTGTTCCTCATGTTTATGAAAGTCCTGCACAGTTTCAAAGGC
ATGGTAAATAATATATCAATGTTTATGTAGTCTGTTACAGAAACAGCTATAGATAACATTATCCAGTGAAGAGCA
AAATTCAAGCTTTAGAAAATATTATGCATGCAATTTTGACATATCTAAAAATAGGTTTTTGTATATTTATGGTG
GGAGGTGGTTGGGAACTTTTAACAAAATGGGGTGTTAATTTTTGTACAGTCTGTGGGCATTTACACATTTTAAAT
GTATTAATAATTTGGTAATTATGTGTACATTAATAATAAAAGTTACTTCTAGTTATGATTTGTGAATTCCTTAA
GACCTTGGATTTTTTTAAGTAACTTTATATCAGAAATGATACTGCATCTTTATATTTTTTAAATTTGTATTGCTGC
TCAAGAATGGTACCCTCTTGTCAAAAAGGCATACATTTCATAATTGTACATTCAGCATTGTAAATAATCTTATGAA
ACCTTTTTTGATTGAAGCTATTCAAATAAAAAATTTTAATGAATGAAATAA

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FIGURE 2279

MSEIEEIFSTDLPDGMVPLNGTIMPCDAVLINGTCIVNESMLTGESVPVTKTNLPNPSVDVKIGIGDQLYNPE
THKRHTLFCGTTVIQTRFYTGELVKAIVVRTGFSTSKGQLVRSILYPKPTDFKLYRDAYLFLLCLVAVAGIGFIY
TIINSILNEVQVGVIIIESLDIITITVPPALPAAMTAGIVYAQRRLKKIGIFCISPQRINICGQLNLVCFDKTGT
LTEDGLDLWGIQRVENARFLSPEENVVCNEMLVKSQFVACMATCHSLTKIEGVLSGDPLDLKMFEAIGWILEEATE
EETALHNRIMPTVVRPPKQLLPESTPAGNQEMELFELPATYEIGIVRQFPFSSALQRMSVVARVLGDRKMDAYMK
GAPEAIAGLCKPETVPVDFQNVLEDFTKQGFRVIALAHRKLESKLTWHKVQNI SRDAIENNMDFMGLIIMQNKLK
QEPPAVLEDLHKANIRTVMTGDSMLTAVSVARDCGMILPQDKVIIAEALPPKDGKVAKINWHYADSLTQCSHPS
AIDPEAIPVKLVHDSLEDLQMTYHFAMNGKSFVILEHFQDLVPKMLHGTVFARMAPDQKTQLIEALQNVDYF
VGMCGDGANDCGALKRAHGGISLSELEASVASPFTSKTPSISCVPNLIREGRAALITSSCELALFSIVTYSLDHF
IISILISSMLVLFFSDFHNCAFYSLV

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FIGURE 2280

GGAGTTGAGAATTAGGGAGGAGGTGGTAGAGTCCGGGTAGTGAGCGGAGGGACAGGAAGGGTAGGGCAAGAAAGG
GAGAGGGGACAGGAGGGAAGGGTGGGCCAAAGCGGTGAGAAAAGGAGGGCCAGCCAGTTGGGTGGGGGAGAGGGCC
GAGGCCCCGGGGGACAGGAGTGCAGGGCTCTGAGGCGGGGAGAGGAGAGAGAAGAGCCGCGGGGGGGCCCAGCCC
GGAGCCAGGATGCCCCGCGCCGCGCGCCCGGGAGCAGCCCCGCGTGCCCGGGGAGCGCCAGCCGCTGCTGCCTCGC
GGTGCGCGGGGCCCTCGACGGTGGCGGGCGGGCGGGCGCGGCCGTGCTGCTGGTGGAGATGCTGGAGCGCGCC
GCCTTCTTCGGCGTCACCGCCAACCTCGTGCTGTACCTCAACAGCACCAACTTCAACTGGACCGGCGAGCAGGGC
ACGCGCGCCGCGCTGGTATTCTTGGGCGCCTCCTACCTGCTGGCGCCCGTGGGCGGCTGGCTGGCCGACGTGTAC
CTGGGCCGCTACCGCGCGGTGCGCTCAGCCTGCTGCTCTACCTGGCCGCTCGGGCCTGCTGCCCCGCCACCGCC
TTCCCCGACGGCCGAGCTCCTTCTGCGGAGAGATGCCCCGCTCGCCGCTGGGACCTGCCTGCCCCCTCGGCCGGC
TGCCCGCGCTCCTCGCCAGCCCCCTACTGCGCGCCCGTCCTCTACGCGGGCCTGCTGCTACTCGGCCTGGCCGCC
AGCTCCGTCCGGAGCAACCTCACCTCCTTCGGTGCCGACCAGGTGATGGATCTCGGCCGCGACGCCACCCGCCGC
TTCTTCAACTGGTTTTACTGGAGCATCAACCTGGGTGCTGTGCTGTGCTGCTGGTGGTGGCGTTTATTACAGCAG
AACATCAGCTTCCTGCTGGGCTACAGCATCCCTGTGGGCTGTGTGGGCCTGGCATTTTTTCATCTTCCTCTTTGCC
ACCCCCGTCTTCATCACCAAGCCCCGATGGGCAGCCAAGTGTCCTCTATGCTTAAGCTCGCTCTCCAAAACCTGC
TGCCCCCAGCTGTGGCAACGACACTCGGCCAGAGACCGTCAATGTGCCCGCGTGCTGGCCGACGAGAGGTCTCCC
CAGCCAGGGGCTTCCCCGCAAGAGGACATCGCCAACTTCCAGGTGCTGGTGAAGATCTTGCCCGTCATGGTGACC
CTGGTGCCCTACTGGATGGTCTACTTCCAGATGCAGTCCACCTATGTCCTGCAGGGTCTTACCTCCACATCCCA
AACATTTTCCCAGCCAACCCGGCCAACATCTCTGTGGCCCTGAGAGCCCAGGGCAGCAGCTACACGATCCCGGAA
GCCTGGCTCCTCCTGGCCAATGTTGTGGTGGTGCTGATTCTGGTCCCTCTGAAGGACCGCTTGATCGACCCTTTA
CTGCTGCGGTGCAAGCTGCTTCCCTCTGCTCTGCAGAAGATGGCGCTGGGGATGTTCTTTGGTTTTACCTCCGTC
ATTGTGGCAGGAGTCTTGAGATGGAGCGCTTACACTACATCCACCACAACGAGACCGTGTCCCAGCAGATTGGG
GAGGTCTGTACAACGCGGCACCACTGTCCATCTGGTGGCAGATCCCTCAGTACCTGCTCATTGGGATCAGTGAG
ATCTTTGCCAGCATCCCAGGCCTGGAGTTTGCTACTCAGAGGCCCCGCGCTCCATGCAGGGCGCCATCATGGGC
ATCTTCTTCTGCCTGTGCGGGGTGGGCTCACTGTTGGGCTCCAGCCTAGTGGCACTGCTGTCTTGGCCGGGGGC
TGGCTGCACTGCCCCAAGGACTTTGGGAACATCAACAATTGCCGGATGGACCTCTACTTCTTCTGCTGGCTGGC
ATTACAGCCGTCACGGCTCTCCTATTTGTCTGGATCGCTGGACGCTATGAGAGGGCGTCCCAGGGCCCAGCCTCC
CACAGCCGTTTCAGCAGGGACAGGGGCTTGAACAGGCCCTATTCCAGCCCCCTTGCTTCACTCTACCGGACAGACG
GCAGCAGTCCCAGCTCTGGTTTCCTTCTCGGTTTATTCTGTTAGAATGAAATGGTTCCATAAATAAGGGGCATG
AGCCCTTCCTCCC

2569/2825
FIGURE 2281

MPAPRAREQPRVPGERQPLLPRGARGPRRWRRRAAGAAVLLVEMLERAFFGVTANLVLYLNSTNFWTGEQATRA
ALVFLGASYLLAPVGGWLADVYLGRYRAVALSLLLYLAASGLLPATAFPDGRSSFCGEMPASPLGPACPSAGCPR
SSPSPYCAPVLYAGLLLLGLAASSVRSNLTSFGADQVMDLGRDATRRFFNWFYWSINLGAVLSLLVVAFIQQNIS
FLLGYSIPVGCVGLAFFIFLFATPVFITKPPMGSQVSSMLKLALQNCCPQLWQRHSARDRQCARVLADERSPOPG
ASPQEDIANFQVLVKILPVMVTLVPYWMVYFQMSTYVLQGLHLHIPNIFPANPANISVALRAQGSSYTIPEAWL
LLANVVVVLILVPLKDRLIDPLLLRCKLLPSALQKMALGMFFGFTSVIVAGVLEMERLHYIHHNETVSQQIGEV
YNAAPLSIWWQIPQYLLIGISEIFASIPGLEFAYSEAPRSMQGAIMGIFFCLSGVGSLGSSLVALLSLPGGWLH
CPKDFGNINNCRMDLYFFLLAGIQAVTALLFVWIAGRYERASQGPASHSRFSRDRG

2570/2825
FIGURE 2282

AACATTCCCTGCAAATGGTTTCAATATATGCAGATGTCTCGATATAGGAATGAAATTACGTCTTTGGAACAACCTTA
AATAAGTCAAATATACTTGGAGCTTTAAAAATTAAAAGGAGAGAGATTGAGCACCTTTTCTGCTGCCATGACAA
CCATGCAAGGAATGGAACAGGCCATGCCAGGGGCTGGCCCTGGTGTGCCCCAGCTGGGAAACATGGCTGTCATAC
ATTACATCTGTGGAAAGGATTGCAAGAGAAGTTCTTGAAGGGAGAACCCAAAGTCCTTGGGGTTGTGCAGATTCT
TGACTGCCCTGATGAGCCTTAGCATGGGAATAACAATGATGTGTATGGCATCTAATACTTATGGAAGTAACCCTA
TTTCCGTGTATATCGGGTACACAATTTGGGGGTCAGTAATGTTTATTATTTTCTGAGATCCTTGTCAATTGCAGCAG
GAATTAGAACTACAAAAGGCCTGGTCCGAGGTAGTCTAGGAATGAATATCACCAGCTCTGTACTGGCTGCATCAG
GGATCTTAATCAACACATTTAGCTTGGCGTTTTATTTCATTCCATCACCCCTTACTGTAACCTACTATGGCAACTCAA
ATAATTGTCATGGGACTATGTCCATCTTAATGGGTCTGGATGGCATGGTGCTCCTCTTAAGTGTGCTGGAATTCT
GCATTGCTGTGTCCCTCTCTGCCTTTGGATGTAAAGTGCTCTGTTGTACCCCTGGTGGGGTTGTGTTAATTCTGC
CATCACATTCTCACATGGCAGAAACAGCATCTCCACACCACTTAATGAGGTTTTGAGGCCACCAAAAGATCAACA
GACAAATGCTCCAGAAATCTATGCTGACTGTGACACAAGAGCCTCACATGAGAAATTACCAGTATCCAACCTCGA
TACTGATAGACTTGTTGATATTATTATTATATGTAATCCAATTATGAACTGTGTGTGTATAGAGAGATAATAAAT
TCAAAATTATGTTCTCATTTTTTTCCCTGGAACCTCAATAACTCATTTCACTGGCTCTTTATCGAGAGTACTAGAA
GTTAAATTAATAAATAATGCATTTAATGAGGCAACAGCACTTGAAAGTTTTTCATTCATCATAAGAACCTTTATAT
AAAGGCATTACATTGGCAAATAAGGTTTGGAAGCAGAAGAGCAAAAAAAGATATTGTTAAATGAGGCCTCCAT
GCAAAACACATACTTCCCTCCCATTTATTTAACTTTTTTTTTCTCCTACCTATGGGGACCAAAAGTGCTTTTTCTCT
TCAGGAAGTGGAGATGCATGGCCATCTCCCCCTCCCTTTTTCTCCTGCTTTTTCTTTCCCATAGAAAGTAC
CTTGAAGTAGCACAGTCCGTCCTTGATGTGCACGAGCTATCATTTGAGTAAAAGTATACATGGAGTAAAAATCA
TATTAAGCATCAGATTCAACTTATATTTTCTATTTTCATCTTCTTCCCTTTCCCTTCTCCACCTTCTACTGGGCAT
AATTATATCTTAATCATATATGGAATGTGCAACATATGGTATTTGTTAAATACGTTTGTTTTTATTGCAGAGCA
AAAAATAATCAAATTAGAAGCAATAAAAAAAAAAAAAAAAAAAAAA

2571/2825
FIGURE 2283

MTTMQGMEQAMPGAGPGVPQLGNMAVIHSHLWKGLQEKFLKGEPKVLGVVQILTALMSLSMGITMMCMASNTYGS
NPISVYIGYTIWGSVMFIIISGSLSIAAGIRTTKGLVRGSLGMNITSSVLAASGILINTFSLAFYSFHHPYCNYG
NSNNCHGTMSILMGLDGMVLLLSVLEFCIAVSLSAFGCKVLCCTPGGVVLILPSHSHMAETASPTPLNEV

2572/2825
FIGURE 2284

GTGCTCTGCACCCAGCTCCTTCCCGGGCGCGCACACGCGCTTCCTCTCTTGAGCTCCCGGGCGTCCGGAGGCGAA
GGTCCCGGAGCGTTACAGAGAAATCCGGGTCCCGGCGAGTCCGGGGTCCGCTCCTCCAGCTGCGCCCAGGGCGCAC
GAGCCGGCCAGCCTCGGGGAGAGGGCGCGGGGGCGCTGGGGGTTCCTTACGGGAAGATGAGGAAGCCCGACAGCAA
GATCGTGCTCCTGGGGGACATGAACGTGGGGAAGACGTGCTGCTGCAGCGGTATATGGAGCGGGCGCTTCCCGGA
CACGGTCAGCACGGTGGGGCGGCGCCTTCTACCTGAAGCAGTGGCGCTCCTACAACATCTCCATCTGGGACACCGC
AGGGCGGGAGCAGTTCCACGGCCTGGGATCCATGTACTGCCGGGGGGCGGCCGCCATCATCCTCACCTATGATGT
GAATCACCGGCAGAGCCTGGTGGAGCTGGAGGACCGGTTCTGGGCCCTGACAGACACAGCCAGCAAAGACTGCCT
CTTCGCCATCGTGGGGAACAAAGTGGACCTCACTGAGGAGGGGGCCTTGGCGGGCCAGGAGAAGGAAGAGTGCAG
TCCCAATATGGACGCTGGGGACCGTGTCTCCCAAGGGCACCTAAGCAGGTGCAGCTGGAGGATGCGGTGGCCCT
TTATAAAAAGATCCTCAAGTACAAGATGCTGGATGAGCAGGATGTGCCGGCCGCTGAGCAAATGTGCTTTGAGAC
CAGCGCCAAGACCGGCTACAATGTGGACCTCCTGTTTGGAGCCCTCTTTGACCTGGTGGTGCCAATGATCTTACA
GCAGAGAGCTGAGAGGCCGTCACACACAGTGGATATATCCAGTCATAAGCCACCCAAGAGGACCAGATCTGGGTG
TTGTGCC**TGA**CTTTTCGAGGGCCTCCTGGACTCAGACTGTGCATGTTGGGAAGGGGTCTGACCAGGCAAGCTGTGA
TCTGAAAGGAGCAAGGAACAGCAAGGAATTATTTTCCAGAATGACACCCGCAGCAGAATGTTGGAGTGGAAATGA
TGGCTGGCTATGAAGAGGAGGTCAACGTGTGTGGTCTCCTCAGTCTCTGTCAGAGGGGTGGGGAGGTGGGAAACA
GGAATCCTCTGCAAAGCCCAATCTGCAGAGTCGAGACCCCTGGTGCTCTCTGCCCCGCTGCCTGGCACTGGTCTCT
TTGCAGCCAGCCACCAACGGCCCCCTTGCCCTTGAGAGGCAGAAAGCCTGCGTCTGCACCTGCACCTCTGACCGT
TTCAGCACCTGGGTGTTTACCACGTCCTACAACCTCTGACATTTCTTGTCTCAAGCGTTTCTCTTCACTGTGAG
TTGICTTTGGTCTCTCCACTTGGTACTTGTATCTTGATGCTTTATAATCCTGACTCTCGACGTGTTCAATTTATAC
AAAATCAGGAATAACTTTGTTTTTATACTGATTGCAGCAATGTTGGCTACATGTATTATTAAAGAGGATTTTGG
AACAACTTAAAAAAAAAAAAAAAAAAAAA

2573/2825
FIGURE 2285

MRKPDSKIVLLGDMNVGKTSLLQRYMERRFPDTVSTVGGAFYLKQWRSYNISIWDTAGREQFHGLGSMYCRGAAA
IILTYDVNHRQSLVELEDRLFGLTDTASKDCLFAIVGNKVDLTEEGALAGQEKEECSPNMDAGDRVSPRAPKQVQ
LEDAVALYKKILKYKMLDEQDVPAAEQMCFETSAKTGYNVDLLFETLFDLVVPMILQQRAERPSTVDISSHKPP
KRTRSGCCA

2574/2825
FIGURE 2286

TTTAGTTTAAAAAGAAAAATGCAGGGTGATTTCTTATTATTATATGTTAGCCTGCATGGTTAAATTTCGACAACT
TGTAACCTCTATGAACTTAGAGTTTACTATTTTAGCAGCTAAAAATGCATCACATATTCATATTGTTCAATAATGT
CCTTTTCATTTGTTTCTGATTGTTTTTCATCCTGATACTGTAGTTCACTGTAGAAATGTGGCTGCTGAAACTCATTT
GATTGTCATTTTTATCTATCCTATGTTAAATGGTTTGTTTTACAAAATAATACCTTATTTTAAATTGAAACGTTT
ATGCTTTTGCCAACACATCTTGTAACCTTAATATACTAGATGTTAAGGTTGTTAATGTACAAAAAAAACCCCTTA
TACTCACCTGCGTTTTTCATTTGTTTGACATTTGTCTATTATTGGATTTCATTATCATATGAACTTGTCAGTGCGA
AACAACTGTCTAAAAATTTTTCTCTTACGTTTAAACATACAATCATGTGAAATTTAGGCAGAGTTTCGATAAATTA
CTGGCAAAAACAAAACCTCTTTTATAAAGATTTTCTAATGTTGACTTTAATACTCTAACATGGTACAAACCAAATG
GTAAATCCCAAGTCATTTCTTTTTTCATCTCTATTTCAGCAACAGAAATTAAGTGGATGAAGATATTCTACTGTGC
ATTAAATCTTGAACTTTATAAAACATGTACAAAAATTGTACAAGATAAGTTCCACCTGGTAATGTCTTTCCCTAA
TACAGGGTTGCGCTTGCAATTGGACCCTAGGGATTTGCACTAAAATTATATCAAGGTCTCAGATGAGCTTAGTGCA
CAAGCACTATCACTTTAAATACTATTATTTGCTACCACAGCAACTATATATTTCCATAGCTTTTGGCTGGGGGCG
GGGGACATTTTATTACAACCTGAAATTGCTTTGCTGGTTTCATATTTATTTGTTGTATTTAAAAAATACATTGT
TGTAAGAGTGATTTTTTCAATATATTTTATTCTGGGGGGGATCATGCTACACTCTCAAAGAAAATTAAGAAAT
CATTTCAGATCATCCCCCTTTTAAAGTAGTGGAATTGCAAAACCCAACATATTTTTTTTTTACTGTGAGTTGCGG
TTTATTTATTCTTTAACTGTCGTGTTTAGTAGTTTAAATGATTATGAAAAATGTATCTGTGTGTGATTTGCTATTT
ATTAAATTTTAAGTACTTTGCTGAATGTCATTTTAAAGCATGTTTGAAGTCTTGTGTATTTGTCTGTGTTAATGC
TGTCAGGAGGAACTGACTAAGATGTTTTAATATGTATCAAAAATTAATGATTTTTTTT

2575/2825
FIGURE 2287

MKIFYCALNLELYKTCTKIVQDKFHLVMSFPNTGLRLHWTLGICTKIISRSQMSLVHKHYHFKYYYLLPQQLYIS
IAFGWGRGTFLQLEIALLVSYLFVVFKYIVVRVIFSIYFIPGGDHATLSKEN

2576/2825
FIGURE 2288

GGGGAGCCTTTGGAGAGAAGGGAGAGGGCCCGTCCGACAGCCACAGCGGCCAGCGCAGCGGCAGCGGCGGGCGGCA
CCACCATCACCGCTCGCACCCCCAGCCGCCCGGCCGCGACCAGGCAGCGGCGGCCGCCGGGATCGGAGGAGG
CGGCGAAGCGACTCCGATCCTCCCTCTGAGCCTTGCTCAGCTCTGCCCCGCGCCTCCCGGGCTCCGGTCCGCGCG
GCGGGGTCCCTGCTCCTGCGCCCCGGGCGCGCTTCCCGGACACCCCGGTCCCCGCAGCCAGGACAAAGCCATGAA
GCCAGCGCTGCTGGAAGTGATGAGGATGAACAGAATCTGCCGGATGGTGCTGGCCACTTGCTTGGGATCCTTTAT
CCTGGTCATCTTCTATTTCCAAAGTATGTTGCACCCAGTCATGCGGAGGAATCCCTTTGGTGTGGACATCTGCTG
CCGGAAGGGGTCCCGAAGCCCCCTGCAGGAACCTCTACAACCCAATCCAGCTGGAGCTCTCAAACACTGCTGTCTT
GCACCAGATGCGGCGGGACCAGGTGACAGACACGTGCCGAGCCAACAGCGCCACAAGCCGTAAGCGGAGGGTGCT
GACCCCCAACGACCTGAAGCACTTGGTGGTGGATGAGGACCACGAGCTCATCTACTGCTACGTGCCCAAGGTGGC
CTGCACCAACTGGAAGCGGCTCATGATGGTCCTGACCGGGCGGGGGAAGTACAGCGACCCCATGGAGATCCCGGC
CAACGAGGCACACGTCTCCGCCAACCTGAAGACCCTGAACCAGTACAGCATCCCAGAAATCAACCACCGCTTGAA
AAGCTACATGAAGTTCCTGTTTGTCCGGGAGCCCTTCGAGAGGCTAGTGTCCGCCTACCGCAACAAGTTCACCCA
GAAGTACAACATCTCCTTCCACAAGCGGTACGGCACCAAGATCATCAAACGCCAGCGGAAGAAGCCACCCAGGA
GGCCCTGCGCAAAGGGGACGATGTCAAATTCGAGGAGTTTGTGGCCTATCTCATCGACCCACACACCCAGCGGGA
GGAGCCTTTCAACGAACACTGGCAAACCGTCTACTCACTCTGCCATCCCTGCCACATCCACTATGACCTCGTGGG
CAAGTACGAGACACTGGAAGAGGATTCTAATTACGTCCTGCAGCTGGCAGGAGTGGGCAGCTACCTGAAGTTCCC
CACCTATGCAAAGTCTACGAGAACTACTGATGAAATGACCACAGAATTCTTCCAGAACATCAGCTCAGAGCACCA
AACGCAGCTGTACGAAGTCTACAAACTCGATTTTTTTAATGTTCAATTACTCAGTGCCAAGCTACCTGAAATTGGA
ATAAAGGGGGTGGGGAGAGGGAGAGAATCATGCTTTTTTAATTTAAGATTTTTATTTGTCAAAGAATTATATGGA
TATTGGGTTATTTTGTAATTAATATTTCTTTGGGGATGATGCTGCGAGCAGCATAGTGAGAATTATTTAAAATC
CTTCGTAGGGAAGGACAGCTGTCTTTGCAGGGGAAATAGGATGGGTCGTTCTTGTCTGTAGAAGTGAATACTGCA
ACACTGTCTCAAAGGTTTCTTGTGTTCTGGTGAATTCCATGAATTGTGCATTCCATAAATTCTAATTAATATTAT
TTATAGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

2577/2825
FIGURE 2289

MKPALLEVMRMNRICRMVLATCLGSFILVIFYFQSMMLHPVMRRNPFVGVDICCRKGSRSPLQELYNPIQLELSNTA
VLHQMRRDQVTDTCRANSATSRKRRVLTPNDLKHLVDEDEHELIYCYVPKVACTNWKRLMMVLTGRGKYSDPMEI
PANEAHVSANLKTNLNQYSIPEINHRLKSYMKFLFVREPFERLVSAYRNKFTQKYNISFHKRYGTKI IKRQRKNAT
QEALRKGD DVKFEEFVAYLIDPHTQREEPFNEHWQTVYSLCHPCHIHVDLVGKYETLEEDSNYVLQLAGVGSYLK
FPTYAKSTRITDEMTEFFQNISSEHQTQLYEYVKLDFLMFNYSVPSYKLKLE

2578/2825
FIGURE 2290

TTTGCGCTCGGGGAATTAAAAGAGGGGAAAAAAGCCCGAAGAAACTCACGCCCCAAACAAAACGCAAGGAGAG
GAGGGCGCGCGGCCTGCAGCCCTCGCCCCGCGTCCCCGGCCGCGGCGTGATGCGCGCGGACCAGCCCGCGACGCC
GGGCTGCCGCTGTCCCCGCACCTGGACGCTGGCGCGGTGGCCGCGCCCCAGCCTCGATCGCTCGCCGCGGCGACT
CGGCCCCAGGCTTCCGGCGCCGGTGGGGGCCCTCGCTCTCCATGGGGCTGAGGGACTGGCTGAGAACCCTGTGCT
GCTGCTGCCGGTGCAGTGCTTGGAGGAGCGCGCCCTGCCTGAGAAGGAGCCCCCTCGTCAGTGATAACAATCCAT
ATTCCTCATTGGAGCAACTCTGGTGAGGGATGATGAGAAGAATTTATGGAGTATGCCCCATGATGTGTCCCACA
CAGAGGCAGACGACGACAGAACCCCTGTACAATTTGATAGTCATTTCGTAATCAGCAGGCCAAAGACTCAGAGGAGT
GGCAGAAGCTCAACTATGATATCCATACCCCTGCGGCAGGTTGGAAGGGAAGTAAGAAACAGATGGAAGTGCATCT
TAGAAGATTTAGGTTTTCAAAGGAAGCTGACTCTTTGTTGTCAGTGACTAAACTCAGCACCATCAGTGATTCTA
AAAACACAAGGAAAGCTCGAGAGATGTTGTTAAACTGGCTGAAGAAACCAGTATTTCCCAACAAGTTGGGAGC
TCTCAGAGAGATATCTCTTTGTTGTGGACCGTCTCATTGCACTTGATGCTGCAGAAGAGTTCTTTAAGCTTGCTC
GTCGAACTTACCCCAAGAAGCCTGGGGTTCCATGCCTGGCAGATGGCCAGAAAGAACTGCACCTGTGGGGGGACC
TCTCATGCAGACTTGACATATGCAGGGAGTATTGCACTGAAGATCTTTGCTGGACCTTCTTCTCTCAGAAGAT
AATTTTCAAAGGGAGCAATGCTGTGAATGCAGCTTGCTTCTCTCTACAGATTGAGAAGTCCAGCTTCAAAGTT
ACTTGCCACTTAAGCAAGGAAGCTTGTCAGAGATCATGGTTTCTGTTACTGAAAAGACTTTAAGGATTTGTAAGG
TTAATCCATAGATTGCTGAGAACAAATGGAAATATTTTTATTTTTACAGATTTTGCACTTCTGAATTCAGGTAA
AACTAAGTTGTATTTAGTCTGCTTAGAGGACTGTGACTTGAAAATTTTTATATACCAATGAGCTTTTTGGTAGCG
TCCACAATGTTTAAATATTTTCATAGGCGAGATCCGTGTTCTCCATTTATTAATGCATTGTAGACCAATTTAACT
GCTGTGTTTCAGGAAAATTTCTTCCTAGTTTAATAAGCAAGCTAAAAGTTTTATTTTTATATTTAGTGCTTAATC
TTTGCTCATGTTATGTAAATTAGCCTGCAGATATTTTCTCTCAATTCTGTAGACTCTCGCAAGATAAACATTC
AAACAGTGAAACAAACAATAAAATAAATAAACCT

2579/2825
FIGURE 2291

MGLRDWLRTVCCCCRCECLEERALPEKEPLVSDNNPYSSFGATLVRDDEKNLWSMPHDVSHTTEADDDRTLYNLIV
IRNQQAKDSEEWQKLNLDIHTLRQVRREVRNRWKCILEDLGFQKEADSLLSVTKLSTISDSKNTRKAREMLLKLA
EETSIFPTSWELSERYLFVVDRLIALDAAEEFFKLARRTPKKPGVPCLADGQKELHLWGDLSCLAHMQGVLH

2580/2825
FIGURE 2292

GAGAGCTGGCTGCGCCGAGCCCCCTGCGCGCTGCAC**ATG**GGGCGCCTGACGGAAGCGGCGGCAGCGGGCAGCGGC
TCTCGGGCTGCAGGCTGGGCAGGGTCCCCCTCCCACGCTCCTGCCGCTGTCTCCACGTCCCCCAGGTGCGCGGCC
ACCATGGCGTCCAGCGACGAGGACGGCACCAACGGCGGCGCCTCGGAGGCCGGCGAGGACCGGGAGGCTCCCGGC
AAGCGGAGGCGCCTGGGGTTCTTGCCACCGCCTGGCTCACCTTCTACGACATCGCCATGACCGCGGGGTGGTTG
GTTCTAGCTATTGCCATGGTACGTTTTTATATGGAAAAAGGAACACACAGAGGTTTATATAAAAGTATTTCAGAAG
ACACTTAAATTTTTCCAGACATTTGCCTTGCTTGAGATAGTTCACTGTTTAATTGGAATTGTACCTACTTCTGTG
ATTGTGACTGGGGTCCAAGTGAGTTCAAGAATCTTTATGGTGTGGCTCATTACTCACAGTATAAAACCAATCCAG
AATGAAGAGAGTGTGGTGCTTTTTCTGGTCGCGTGGACTGTGACAGAGATCACTCGCTATTCCTTCTACACATTC
AGCCTTCTTGACCACTTGCCATACTTCATTAAATGGGCCAGATATAATTTTTTTATCATCTTATATCCTGTTGGA
GTTGCTGGTGAACCTTCTTACAATATACGCTGCCTTGCCGCATGTGAAGAAAACAGGAATGTTTTCAATAAGACTT
CCTAACAAATACAATGTCTCTTTTGACTACTATTATTTTCTTCTTATAACCATGGCATCATATATACCTTTGTTT
CCACAACCTCTATTTTCATATGTTACGTCAAAGAAGAAAGGTGCTTCATGGAGAGGTGATTGTAGAAAAGGATGAT
TAAATGATCTCTGCAAACAAGGTGCTTTTTCCAGAATAACCAAGATTACCTGAGTCCAAGTTTTTAATAACAAGAA
TAAACAACCTTTGTGAAATATCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

2581/2825
FIGURE 2293

MGRLTEAAAAGSGSRAAGWAGSPPTLLPLSPTSPRCAATMASSDEDGTNGGASEAGEDREAPGKRRRLGFLATAW
LTFYDIAMTAGWLVLAIAMVRFYMEKGTHRGLYKSIQKTLKFFQTFALLEIVHCLIGIVPTSVIVTGVQVSSRIF
MVWLITHSIKPIQNEESVVLFLVAWTVTEITRYSFYTFSLLDHLPYFIKWARYNFFIILYPVGVAGELLTIYAAL
PHVKKTGMF SIRLPNKYNVSFDYYYFLLITMASYIPLFPQLYFHMLRQRRKVLHGEVIVEKDD

2582/2825
FIGURE 2294

AGAAACCGTTGATGGGACTGAGAAACCAGAGTTAAACCTCTTTGGAGCTTCTGAGGACTCAGCTGGAACCAACG
GGCACAGTTGGCAACACCATCATGACATCACAACTGTTCCCAATGAGACCATCATAGTGCTCCCATCAAATGTC
ATCAACTTCTCCCAAGCAGAGAAAACCCGAACCCACCAACCAGGGGCAGGATAGCCTGAAGAAACATCTACACGCA
GAAATCAAAGTTATTGGGACTATCCAGATCTTGTGTGGCATGATGGTATTGAGCTTGGGGATCATTTTGGCATCT
GCTTCCTTCTCTCCAAATTTTACCCAAGTGACTTCTACACTGTTGAACTCTGCTTACCCATTTCATAGGACCCTTT
TTTTTTATCATCTCTGGCTCTCTATCAATCGCCACAGAGAAAAGGTTGACCAAGCTTTTGGTGCATAGCAGCCTG
GTTGGAAGCATTCTGAGTGCTCTGTCTGCCCTGGTGGGTTTCATTATCCTGTCTGTCAAACAGGCCACCTTAAAT
CCTGCCTCACTGCAGTGTGAGTTGGACAAAATAATATACCAACAAGAAGTTATGTTTCTTACTTTTATCATGAT
TCACTTTATACCACGGACTGCTATACAGCCAAAGCCAGTCTGGCTGGATCTCTCTCTCTGATGCTGATTTGCACT
CTGCTGGAATTCTGCCTAGCTGTGCTCACTGCTGTGCTGCGGTGGAAACAGGCTTACTCTGACTTCCCTGGGGTG
AGTGTGCTGGCCGGCTTCACTTAACCTTGCCTAGTGTATCTTATCCCTGCACTGTGTTGAGTATGTCACCAAGAG
TGGTAGAAGGAACAACCAGCCAATCACGAGATCACATGGGAGGGCATTTCATTGTGATGGAAGACAGAGAAGAA
AAGCAGATGGCAATTGAGTAGCTGATAAGCTGAAAATTCAGTGGATATGAAAATAGTTAATCATGAGAAATCAAC
TGATTCAATCTTCCTATTTTGTGAGCGAAGGGAATGAGACTCTGGGAAGTTAAATGACTGGCCTGGCATTATGCT
ATGAGTTTGTGCCCTTGTGAGGACACTAGAACCTGGCTTGCCCTCCCTTATAAGCAGAAACAATTTCTGCCACAA
CCACTAGTCTCTTTAATAGTATTGACTTGGTAAAGGGCATTACACACGTAAGTGGATCCAGTGAATGTCTTATG
CTCTGCATTTGCCCTGGTGATCTTAAATTCGTTTGCCTTTTTAAAGCTATATTAAAAATGTATTGTTGAATCA
AAAAAAAAAAAAAA

2583/2825
FIGURE 2295

MTSQPVNETIIVLPSNVINF SQA EKPEPTNQGD SLKKHLHAEIKVIGTIQILCGMMVLSLGIILASASFSPNF
TQVTSTLLNSAYPFIGPFFFIISGSLSIATEKRLTKLLVHSSLVGSILSALSALVGFIILSVKQATLNPASLQCE
LDKNNIPTRSYVSYFYHDSLYTTDCYTAKASLAGSLSLMLICTLLEFCLAVLTAVLRWKQAYSDFPGVSVLAGFT

2584/2825
FIGURE 2296

GCTTCCCGGAAGTGGCGGCGCGGTCAGGGCTGGCCTTGGCTTCAGCTGCGGTTTTGGGGTCCCGGACTCTGGGAT
CGGCGGCGCTATGAGTTCTTTCGAGGGGCAGATGGCCGAGTATCCAACATCTCCATAGACCGCTTCGATAGGGA
GAACCTGAGGGCCCCGCGCTACTTCCTGTCCCACTGCCACAAAGATCACATGAAAGGATTAAGAGCCCCCTACCTT
GAAAAGAAGGTTGGAGTGCAGCTTGAAGGTTTATCTATACTGTTTCACCTGTGACTAAGGAGTTGTTGTTAACGAG
CCCGAAATACAGATTTTGGAAAGAAACGAATTATATCTATTGAAATCGAGACTCCTACCCAGATATCTTTAGTGGA
TGAAGCATCAGGAGAGGTTTTTATTTTCAGGGCAATAATGGAAGTGTCTGTACACAGGAGACTTCAGATTGGCGC
AAGGAGAAGCTGCTAGAATGGAGCTTCTGCACTCCGGGGGCAGAGTCAAAGACATCCAAAGTGTATATTTGGATA
CTACGTTCTGTGATCGAAGATTTTACCAAATTCCAAGTCGGGAGGAGTGTTTAAGTGGAGTCTTAGAGCTGGTCC
GAAGCTGGATCACTCGGAGCCCGTACCATGTTGTGTGGCTGAACTGCAAAGCGGCTTATGGCTATGAATATCTGT
TCACCAACCTTAGTGAAGAATTAGGGGTCCAGGTTTCATGTGAATAAGCTAGACATGTTTAGGAACATGCCTGAGA
TCCTTCATCATCTCACAAACAGACCGCAACACTCAGATCCATGCATGCCGGCATCCCAAGGCAGAGGAATATTTTC
AGTGGAGCAAATTACCCTGTGGAATTACTTCCAGAAATAGAATTCCACTCCACATAATCAGCATTAAAGCCATCCA
CCATGTGGTTTGGAGAAAGGAGCAGAAAAACAAATGTAATTGTGAGGACTGGAGAGAGTTCATACAGAGCTTGTT
TTTCTTTTCACTCCTCCTACAGTGAGATTAAAGATTTCTTGAGCTACCTCTGTCTGTGAACGCATATCCAAATG
TCATTCCAGTTGGCACAACATATGGATAAAGTTGTGAAATCTTAAAGCCTTTATGCCGGTCTTCCCAAAGTACGG
AGCCAAAGTATAAAACCACTGGGAAAACCTGAAGAGAGCTAGAACAGTTCACCGAGACTCAGAGGAGGAAGATGACT
ATCTCTTTGATGATCCTCTGCCAATACCTTTAAGGCACAAAGTTCCATACCCGGAACCTTTTACCCTGAGGTAT
TTTCAATGACTGCAGTATCAGAAAAGCAGCCTGAAAAACCTGAGACAAACCCAGGATGCTGCAGAGCAGAGTGTA
TGCAGAGCTCTCGTTTACAAACTTTGTAGATTGTGAAGAATCCAACAGTGAAAGTGAAGAAGAAGTAGGAATCC
CAGCTTCACTGCAAGGAGATCTGGGCTCTGTACTTCACCTGCAAAAGGCTGATGGGGATGTACCCAGTGGGAAG
TATTCTTTAAAGAAATGATGAAATCACAGATGAGAGTTTGGAAAACTTCCCTTCTCCACAGTGGCAGGGGGAT
CTCAGTCACCAAAGCTTTTTAGTGACTCTGATGGAGAATCAACTCACATCTCCTCCAGAATTCTTCCAGTCAA
CACACATAACAGAACAAGGAAGTCAAGGCTGGGACAGCCAATCTGATACTGTTTTGTTATCTTCCCAAGAGAGAA
ACAGTGGGGATATTACTTCCCTTGACAAAGCTGACTACAGACCAACAATCAAAGAGAATATTCCTGCCTCTCTCA
TGGAACAAAATGTAATTTGCCCAAAGGATACTTACTCTGATTTGAAAAGCAGAGATAAAGATGTGACAATAGTTC
CTAGTACTGGAGAACCAACTACTCTAAGCAGTGAGACACATATACCCGAGGAAAAAAGTTTGCTAAATCTTAGCA
CAAATGCAGATTCCCAGAGCTCTTCTGATTTTGAAGTTCCCTCAACTCCAGAAGCTGAGTTACCTAAACGAGAGC
ATTTACAATATTTATATGAGAAGCTGGCAACTGGTGAGAGTATAGCAGTCAAAAAAGAAAATGCTCACTCTTAG
ATACCTTAAGAATTCAAAGCGTTTCAACCTAGAGCAACCACTAAAAAACCTGCACAGAGATGACAGTCAATATTAC
AATAGAGAAAAATACAGTACTTAAAAATGTTCAAATAACCTGGTTGGGTGTGGTGGCTCACACTTGTAATCCCAGC
ACTTTGAGGTGGGCAATGGCTTGAGCCCAGGAGTTCGACACCAGCCTGGCCAACACAGTGAAATGTGTCTCTACT
TACAAAAAAGCCAGGCATGGTGGTGGGCTACTCTGGAGGCCCTTGAGGACCACTTGAGCC
CAGGAGATTGAGGCTGCAGTGAGCCATGACTGTGCCACTGCACCTCTAGTCTGGGTGACAGAGCAAGACCCTGTT
TAAAAAAGAAAAAGGCCAGGCACGGTGGCTCATGCCTGTAATCCCAGCTACGCAGGAGGCCAAGGCAGGAGAATC
ACTTGAACCTGGGAGGTGGTGGTTGCAGTGAGCTGAGATTGTGTGCATTGCACTCCAGCCTGGGCAACAAGAGCAA
AACTCTGTCTC

2585/2825
FIGURE 2297

MKHQERFLFQGNNGTVLYTGDFRLAQGEAARMELLHSGGRVKDIQSVYLDTTFCDRRFYQIPSREECLSGVLELV
RSWITRSPYHVWVLNCKAAYGYEYLFNTLSEELGVQVHVNKLDMFRNMPEILHHLTTDRNTQIHACRHPKAEYF
QWSKLPCGITSRNRIPLHIISIKPSTMWFGERSRKTNVIVRTGESSYRACFSFHSSYSEIKDFLSYLCPVNAYPN
VIPVGTTMDKVVEILKPLCRSSQSTEPKYKPLGKLKRARTVHRDSEEEDDYLFDDPLPIPLRHKVPYPETFHPEV
FSMTAVSEKQPEKLRQTPGCCRAECMQSSRFTNFVDCEESNSESEEEVGI PASLQGD LGSVLHLQKADGDVPQWE
VFFKRND EITDESLENFP SSTVAGGSQSPKLFSDSDGESTHISSQNSSQSTHITEQGSQGWDSQSDTVLLSSQER
NSGDITSLDKADYRPTIKENIPASLMEQNVICPKDTYSDLKSRDKDVTIVPSTGEPTTLSSETHIPEEKSLNLS
TNADSQSSSDFEVPSTPEAELPKREHLQYLYEKLATGESIAVKKRKCSLLDT

[illegible]

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FIGURE 2299

MGTYSTILIKTEVIECGNYCGVRIIHSLIAEFSLEELKKSYPHLNKSQIMLDMLTENLFFDTGMGKSKFLQDMHTL
LLTRHRDEHEGETGNWFSPIEALHKDEGNEAVEAVLLESIHFRNPNAFICQALARHFYIKKKDFGNALNWAQQA
KIIEPDNSYISDTLGQVYKSKIRWWIEENGNGNISVDDLIALLDLAEHASSAFKESQQQSEDREYEVKERLYPK
SKRRYDTYNIAGYQGEIEVGLYTIQILQLIPFFDNKNELSKRYMVNFVSGSSDIPGDPNNEYKLALKNYIPYLT
LKFSLKKSFDFFDEYFVLLKPRNNIKQNEEAKTRRKVAGYFKKYVDIFCLLEESQNNTGLGSKFSEPLQVERCRR
NLVALKADKFSGLLEYLIKQEDAISTMKCI VNEYTFLEQCTVKIQSKEKLNFI LANIILSCIQPTSR LVPVE
KLKDQLREVLQPIGLTYQFSEPYFLASLLFWPENQQLDQHSEQMKEYAQALKNSFKGQYKMHMRTKQPIAYFFLG
KGKRLERLVHKGKIDQCFKKTPDINSLWQSGDVWKEEKVQELLLRLQGRAENNCLYIEYGINEKITIPITPAFLG
QLRSGRSIEKVSFYLGFPPIGGPLAYDIEIV

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FIGURE 2300

TGACATGCCTGATCCTCTCTTTTCTGCAGTTCAAGGGAAGACGAGATCTTGACAAAGGCACTCTGCTTCTGCCC
TTGGCTGGGGAAGGGTGGCATGGAGCCTCTCCGGCTGCTCATCTTACTCTTTGTACAGAGCTGTCCGGAGCCCA
CAACACCACAGTGTTCCAGGGCGTGCGGGGCCAGTCCCTGCAGGTGTCTTGCCCCATGACTCCATGAAGCACTG
GGGGAGGCGCAAGGCCTGGTGCCGCCAGCTGGGAGAGAAGGGCCCCATGCCAGCGTGTGGTCAGCACGCACAACCTT
GTGGCTGCTGTCTTCTGAGGAGGTGGAATGGGAGCACAGCCATCACAGACGATACCTGGGTGGCACTCTCAC
CATTACGCTGCGGAATCTACAACCCCATGATGCGGGTCTCTACCAGTGCCAGAGCCTCCATGGCAGTGAGGCTGA
CACCTCAGGAAGGTCCTGGTGGAGGTGCTGGCAGACCCCTGGATCACCGGGATGCTGGAGATCTCTGGTTCCC
CGGGGAGTCTGAGAGCTTCGAGGATGCCATGTGGAGCACAGCATCTCCAGGAGCCTCTTGAAGGAGAAATCCC
CTTCCCACCCACTTCCATCCTTCTCCTCCTGGCCTGCATCTTTCTCATCAAGATTCTAGCAGCCAGCGCCCTCTG
GGCTGCAGCCTGGCATGGACAGAAGCCAGGGACACATCCACCCAGTGAAGTGGACTGTGGCCATGACCCAGGGTA
TCAGCTCCAACTCTGCCAGGGCTGAGAGACACGTGAAGGAAGATGATGGGAGGAAAAGCCCAGGAGAAGTCCCA
CCAGGGACCAGCCCAGCCTGCATACTTGCCACTTGCCACCAGGACTCCTTGTCTGCTCTGGCAAGAGACTACT
CTGCCTGAACACTGCTTCTCCTGGACCCTGGAAGCAGGGACTGGTTGAGGGAGTGGGGAGGTGGTAAGAACACCT
GACAACTTCTGAATATTGGACATTTTAAACACTTACAAATAAATCCAAGACTGTCATATTTAAAAA

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FIGURE 2301

MEPLRLLILLFVTELSGAHNTTVFQGVAGQSLQVSCPYSMKHWGRRKAWCRQLGEKGPCQRRVSTHNLWLLSFL
RRWNGSTAITDDTLGGTLTITLRNLQPHDAGLYQCQSLHGSEADTLRKVLVEVLADPLDHRDAGDLWFPGESESF
EDAHVEHSISRSLLEGEIPFPPTSILLLLACIFLIKILAASALWAAAWHGQKPGTHPPSELDCGHDPGYQLQTLF
GLRDT

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FIGURE 2302

CCATTTAAAGAAGATGCTCGGCCTTAAAGGAAATGGCGGTGCGGTTCTGTCCATGGCCCTTCCTTTTCAGCCAGA
GCAGAGAGATTTCAGAGGATTTATTGAAGAATTTTAATTTCAGAGTGTGATACACACTGTGGCCTTGATACTGCACG
ACAAGAATATTTGGGTAACCTATTAAGACAGGAATCAGACTTGAAAAATCCACCTCGTCAGATAATTCAAGCTC
TCATCATGGTGAAAAATAAACAAAATCTGACTGTTGATCCCTGTGACATTTTGGGTGGAGTTGATAATCAGCAAG
ACTGCTACACATTGTCTGGCCTCACAGGTGGGAGCATGATAAAGATCCAGAAAGCTTTTTTAAGGTATTAATGCA
TCTTAAAGACTTAGGACTCAATTTCCACGTGTCTGTACTTGGAGAAACCTTCACAGATGTCCAGATATTTTTTC
AGAGGCCAAAAAGGCATTGGGATCTTCTGTCTTACACTGGGGCTACTTACCCAGCAAAGATGACTACTTCCAAGT
ACTGTGCATGGCTGATGTTGTCTCATCTCAACAGCTAAGCATGAATTCCTTGGAGTGGCAATGTTGGAAGCTGTGTA
CTGTGGGTGTTACCCACTTTGTCCTAAAGATTTGGTTTATCCCGAAATATTTCCAGCTGAATATCTGTATTCTAC
ACCTGAACAGCTTTCAAAAAGGCTCCAGAATTTCTGCAAGAGACCAGATATTATAAGAAAACATCTCTATAAGGG
TGAAATCGCTCCGTTTTCTTGGGCAGCCCTACATGGTAAATTCAGGTCTCTGCTTACAACAGAGCCTAGGGAAGA
TTTGTGACAGATGGGGCTAAGTCACAACTTGCAGCCTAAGGCAGAATCTGAAGAACTTTCCAGAGTGTGCCCAT
ATTTACCTGATCAGAGAGAAAAGAAAATCTGCAGAGGAAGCTGAGCCTGGCTGCTTGTCTATAGCTGACACAGAGC
CATCTGCCACAAACCTGTGGCGGCTTCAGATCTCCAATCCCTGCCACCACCCCAACTCAAATTAAATACAGATTC
CTAGAGACGTTATGATGGTTACACATGTCCTCGGCATCACATGTAGGAGACTGTTCAAAAAAATATGTGGCCTG
TTGTATAACCGCACTCATGTATCCCATATGTGGTGCCACATTGAATTTCCGGTTGAATCCGTTTTTATCCTTTGT
ACTGGATGACATGGTGCCTGAATTCCTTTTCGCGACACGATGGCAGCCAACTGCAGCTTCAAACGCTCAC
ACTTGGCTGGGTTTCTACCTAGGTTGCCAGGTTATCATCGGAGCCTTCTTGTGTCCTCAAAGGGCCACGAGGCCT
GAAAGGAGGATCAGAATGCTTTGGGATTAATTGGGCAGCCATCGCAGAATTGTTTGTGGGCAAAGGGCTGCTTTA
GCACTTTTCTTTTAGCAAATTAATGACTCTCAGGCACAGGGGGTTTTAAGTGAAGGTATTAATAAGAGGTCTGGC
AGGTATTCCCATGATTCACAGAGTTACATTTGCATTTAATTAATCTTAAAGTTGCAAGATAAACAGCTGTAATTC
GGACAAACATGACAAACACAGTGAAGCCAACCTATCCCATAAAAATGAACACTGACATACTTGTTTTAATTTTTTC
CCAGCGTAAAAATAGAAAAATCAAATACTCCTAACAAAAACCAGTGATTTTGATAGAAATATTTCTCCAATATAC
TTGCATCCACCTACAAATATAACCTTTTCAAGATAAATCGCTTATGATTTCAATAGTCAAACCTGCTGTGTTTGT
GATGTAAAGATGTTTTGAATGGCTAGATGGTAAATAAATCTTAATAAAGTACCCACTGCAATTTTT

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FIGURE 2303

MLGLKGNGGAVLSMALPFQPEQRDSEDLLKNFNSECDTHCGLDTARQEYLGNSLRQESDLKKSTSSDNSSSHHGE
NKQNLTVDPDILGGVDNQQRLHIVWPHRWEHDKDPESFFKVLMLKDLGLNFHVSVLGETFTDVPDIFSEAKK
ALGSSVLHWGYLPSKDDYFQVLCMADVISTAKHEFFGVAMLEAVYCGCYPLCPKDLVYPEIFPAEYLYSTPEQL
SKRLQNFCKRPDIIRKHLYKGEIAPFSWAALHGKFRSLLTTEPREDL

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FIGURE 2304

GAAAACATTTTGCTGAAAATATAAGCAAACATCGGCCTTGTCCTCCTTGTTGTTTCATACACTGTGGAAGCTTTTCT
CTGCCCTCCTCCGTGAGAGTGCGTGGCCGGGAGACCAGAAACGTGGTCCTTTCTCTTGCCCTGTGAGCTGGTGCAGA
GATGGAGGAAGAAGAATATGAACAAATTCCCCAGGAGAATCCCCCAGAAAGAGCTGTCCCAGGATCCTGTGCTGGA
GCTGTCAGGAGGTCTCGCCAGAGGTGGCAGACGCTATCTGCCAAGCCATCGTCTTATCCGCCCCAGGGCCCCACG
CCGTGCTCCTGGTGACACAACCTGGGCCGGTTACGGATGAGGATCAGCAGGTGGTCAGGCGCCTGCAGGAGGTCT
TTGGAGTGGGGTTCTGGGTCACACCATCCTGGTGTTCACCCGGAAGGAAGACCTGGCTGGCAGCTCCCTGGAAG
ACTATGTGCGAGAGACCAACAACCAGGCCCTTGCTGGCTGGATGTGACCTTGCACGGCGCCATTGCGGCTTCA
ACAACAGGGCACAGGGGGAGGAGCAGGAGGCCCACTGCGAGAGCTCATGGAGAAAGTTGAAGCCATTATGTGGG
AAAACGAAGGAGATTATTACAGCAACAAGGCTTACCAATATACCCAGCAAACTTTCGGCTGAAAGAACTACAGG
AAAGGCAAGTAAGCCAGGGCCAAGGCTCTGAGGACGTGCCTGGTGAGGAGTCTTGGCTGGAAGGACTGTCCCAGA
TCCAGAAGGAATCTGAGGAAGCCACAGATGCCTGCTGGGGAAGGCTGACCTTTGAGGCCTGTGCTGGACTTGAGC
CAAGGACACCATCAGCCTTTCACCCCCCTGTGTCCAGCCCTCTGTTCTCTTCCATCCCATGGAGTGCTTCCC
AGTCTCCAGGTCATGACGTCTGGTGTAGGAAGAGGGGCATGGGGCTTGAGGACAGGGTCCAGCATGCCAGATCA
CATTCCAGTTCCTTCATTCTTCTTCCAGAACATCTGGGTCTCCTCCTCTGTGCCCCAACAGCACGCTGTCTT
CCTATTGGACCTTCTATCTCATTGGCATTGCCTTTCATGAGTTACTTGTCTATACTCTGATAGAACCAAAGTTTC
TTGAGGGCAGGCCTGTATCTTTTACTTCTGTGTAACCTCCACAGCTTTTGACTGCATTGGAGTCATGCAGTCACG
TTTGGTGCGGCAACTCCATGCAAGCTGTTGACCAGATGACTTCTCATCTCTCCCCACACCATGATGGTTTAAGGT
GCCTGTTGTGTCTGGTGGAGACAGTGCTGGGAGATGATCAGAAATCTCAGGGCACAGCCTCAGGTCTACCTGGAC
ACTCATCCACTGTTGGAGATGCTCAACAGCTAGACACAGATGCTCACAGCCGACCTGTGGCCTCTTGCTCTGAAG
CCATCCCCCATCTTCCCTAGACACAGCAGACATCTGAGAAAGCTTCAGCATTCTCTTGCTAACAGATTTCAGAAA
AGTGTCTCAAAGCAGAGCACAGAGTTATTTGGTGTGTTGCTGAAGACAGCCTTGTGCCACAATCACTTATTAAT
AAGCGATCAATTTCCCATTTGAACCTGAACATGCAACATTTATCATACTTCAGCTCTCATTACACTCCTTAAGAT
TTGGTCAGAATTTTATTTCTGTTTCATGTCTTCTACTTTTCTACTCCTGTATGAATAAAATATTGATTTGATTAC
AGTGGCTTTGACTATAATGTGGGAGCCAATTTTGCCTCAGTCTTCATTTTATATTTACCTTGTTATTCTCAGG
CATTTTTTTCTTCTATGTGAGAGTTAAATCATTCTGTAATTTCCCCCAGAAATCATATTGGTATTCTAGTTGGC
AATGTCTTACATTTATGTTAAGTTTGAGGGAATTGGTAGTTCAAGTATAAGTTAATTAAGGCCATTTTATTTCTA
AGTGAACAGACTTGAACTCCAGAGCTACTGAAGTAAAAGTTAGAATCATTTCATTTTATTTCAGATAGGAGAT
AATTTTGTAATTTTGATGCTATTATTTTAACTCTATTAGCTTAAGTAATGTCATAATAGAAAACACAAGCATTT
GACCAAATGAGATCCATTACGCGACTAACTGGCAAGGCACCTCAAACATGTCATTTCATTAAATGTTGTTTTTATT
TACCTCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2305

MNKFPRRIPQKSCPRILCWSCQEVSP EVADAICQAIVLSAPGPHAVLLVTQLGRFTDEDQQVVRRLQEVFGVGVL
GHTILVFTRKEDLAGSSLEDYVRETNNQALAWLDVTLARRHCGFNNRAQGEEQEAQLRELMKVEAIMWENEGDY
YSNKAYQYTQQNFRLKELQERQVSQGGSEDVPGEE SWLEGLS QIQKESEE AHRCLLGKADL

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FIGURE 2306

AATAGGGGAAAATAAGCCAGATGGATAAAGGAAGTGCTGGTCACCCTGGAGGTGCACTGGTTTGGGGAAGGCTCC
TGGCCCCCACAGCCCTCTTCGGAGCCTGAGCCCGGCTCTCCTCACTCACCTCAACCCCCAGGCGGCCCTCCACA
GGGCCCCCTCTCCTGCTGGACGGCTCTGCTGGTCTCCCCGTCCCCCTGGAGAAGAACAAGGCCATGGGTCGGCCCC
TGCTGCTGCCCCCTACTGCCCCCTGCTGCTGCCGCCAGCATTCTGTCAGCCTAGTGGCTCCACAGGATCTGGTCCAA
GCTACCTTTATGGGGTCACTCAACCAAAACACCTCTCAGCCTCCATGGGTGGCTCTGTGGAATCCCCCTTCTCCT
TCTATTACCCCTGGGAGTTAGCCACAGCTCCCGACGTGAGAATATCCTGGAGACGGGGCCACTTCCACGGGCAGT
CCTTCTACAGCACAAGGCCGCCTTCCATTACAAGGATTATGTGAACCGGCTCTTTCTGAACTGGACAGAGGGTC
AGAAGAGCGGCTTCCTCAGGATCTCCAACCTGCAGAAGCAGGACCAGTCTGTGTATTTCTGCCGAGTTGAGCTGG
ACACACGGAGCTCAGGGAGGCAGCAGTGGCAGTCCATCGAGGGGACCAAACCTCTCCATCACCCAGGCTGTCACGA
CCACCACCCAGAGGCCCCAGCAGCATGACTACCACCTGGAGGCTCAGTAGCACAACCACCACAACCGGCCTCAGGG
TCACACAGGGCAAACGACGCTCAGACTCTTGGCACATAAGTCTGGAGACTGCTGTGGGGGTGGCAGTGGCTGTCA
CTGTGCTCGGAATCATGATTTTGGGACTGATCTGCCTCCTCAGGTGGAGGAGAAGGAAAGGTCAGCAGCGGACTA
AAGCCACAACCCAGCCAGGGAACCTTCCAAAACACAGAGGAGCCATATGAGAATATCAGGAATGAAGGACAAA
ATACAGATCCCAAGCTAAATCCCAAGGATGACGGCATCGTCTATGCTTCCCTTGCCCTCTCCAGCTCCACCTCAC
CCAAAGCACCTCCCAGCCACCGTCCCCCTCAAGAGCCCCCAGAACGAGACCCTGTACTCTGTCTTAAAGGCCTAAC
CAATGGACAGCCCTCTCAAACTGAATGGTGAGGCCAGGTACAGTGGCGCACACCTGTAATCCCAGCTACTCTGA
AGCCTGAGGCAAAATCAAGTGAGCCAGGAGTTCAGGGCCAGCTTTGGATAATGGGAGCGAGGATGCCATCTCTA
GTTAAAAATATATATTAACAATAAAGTAACAAATTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2307

MGRPLLLPLLP LLLPPAFLQPSGSTGSGPSYLYGVTQPKHLSASMGG SVEIPFSFYYPWELATAPDVRI SWRRGH
FHGQSFYSTRPPSIHKDYVNRLFLNWTEGQKSGFLRISNLQKQDQSVYFCRVELDTRSSGRQQWQSIEGTKLSIT
QAVTTTTQRPSSMTT TWRLSSTTTTTGLRVTQGKRRSDSWHISLETAVGVAVAVTVLGIMILGLICLLRWRRRKG
QORTKATTPAREPFQNT EEPYENIRNEGQNTDPKLNPKDDGIVYASLALSSSTSPKAPP SHRPLKSPQNETLYSV
LKA

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FIGURE 2308

GGGCGAGGCTGCACCAGCGCCTGGCACC**ATG**AGGACGCCTGGGCCTCTGCCCCGTGCTGCTGCTGCTCCTGGCGGG
AGCCCCCGCCGCGCGGCCCACTCCCCGACCTGCTACTCCCGCATGCGGGCCCTGAGCCAGGAGATCACCCGCGA
CTTCAACCTCCTGCAGGTCTCGGAGCCCTCGGAGCCATGTGTGAGATACCTGCCCAGGCTGTACCTGGACATACA
CAATTACTGTGTGCTGGACAAGCTGCGGGACTTTGTGGCCTCGCCCCCGTGTTGGAAAGTGGCCCAGGTAGATT
CTTGAAGGACAAAGCACGGAAGCTGTACACCATCATGAACTCGTTCTGCAGGAGAGATTTGGTATTCTGTTGGA
TGACTGCAATGCCTTGGAATACCCAATCCCAGTGACTACGGTCCTGCCAGATCGTCAGCGC**TAAG**GGGAAC TGAGA
CCAGAGAAAGAACCCAAGAGAACTAAAGTTATGTCAGCTACCCAGACTTAATGGGCCAGAGCCATGACCCTCACA
GGTCTTGTGTTAGTTGTATCTGAACTGTTATGTATCTCTCTACCTTCTGAAAAACAGGGCTGGTATTCCTACCC
AGGAACCTCCTTTGAGCATAGAGTTAGCAACCATGCTTCTCATTCCCTTGACTCATGTCTTGCCAGGATGGTTAG
ATACACAGCATGTTGATTTGGTCACTAAAAAGAAGAAAAGGACTAACAAGCTTCACTTTTATGAACAAC TATTTT
GAGAACATGCACAATAGTATGTTTTTATTACTGGTTTAATGGAGTAATGGTACTTTTATTCTTTCTTGATAGAAA
CCTGCTTACATTTAACCAAGCTTCTATTATGCCTTTTCTAACACAGACTTTCTTCACTGTCTTTCATTTAAAAA
GAAATTAATGCTCTTAAGATATATATTTTACGTAGTGCTGACAGGACCCACTCTTTCATTGAAAGGTGATGAAAA
TCAAATAAAGAATCTCTTCACATG

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FIGURE 2309

MRTPGPLPVLLLLLAGAPAARP TPPTCYSRMRALSQEITRDFNLLQVSEPSEPCVRYLPRLYLDIHNYCVLDKLR
DFVASPPCWKVAQVDSLKDKARKLYTIMNSFCRRDLVFLDDCNALEYPIPVTTVLPRDRQR

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FIGURE 2310

TTTTCAGTGCCTCTTCTGTCACAATCGTAGACACGGTCACACTCCAGTATCTGGGAAAACACAGAGATCGCTATG
GGTTGCAGCGCATGTGGGGCTCCCTGGGCTGGGGCCTGGCGATGCTGTCTGTGGGCATCGGGATCGACTACACCC
ACATCGAAGTGCTCATCGATGGAAAGGGGTGTAAGCCCCCGAGTACAGGAATTACCAGATCGTCTTCATCGTCT
TCGGCGTTCTCATGACCATGGCCTTGATCGTTGCCACTCAGTTCCGGTTCCGCTACAACCATTTCAAAAACGATG
ATTCTAAAGGGAAAGAGGTGGAGATCCCGCAGGTGGAAAGGAACAACCTCTACAGAGTCTCTGAGGAGACACCAA
CCACCACAAGCCACTCGCAGGCCTTCAACTTTTGGGACTTAATCAAGCTGCTCTGCAGCGTGCAGTATGGCTCAG
TGCTGTTTGTGGCTTGTTTCATGGGTTTTGGATATGGCTTCGTGTTACCTTTCTCTACTGGCATTTGGAAGACC
TCAATGGAACTACAACCCTCTTTGGGGTCTGTTTCAGTCCCTGAGTCATGTGTCTGAGCTGACAGCATATTTTTTTTA
GTCACAAGCTTATTGAATTGATCGGCCACATCAGGGTTCTGTACATTGGCCTGGCCTGCAATACGGCTCGCTATA
TTTATATTTCTTACCTGGAGAATGCCTGGACTGTTCTCCCCATGGAAGTTCTTCAAGGAGTGACACACGCGGCCA
TCTGGGCAGCATGCATTTCTTACCTCAGTGCAGCCGTTCCCCCTGAGCTGAGGACATCTGCTCAGGGCATCCTGC
AGGGCCTTCACCTGGGTTTTGGGAAGAGGATGTGGTGCCATGATCGGAGGCGTGTTAGTCAATTATTTTGGGGCTG
CTGCAACCTTCCGAGGAATTGGCATGGCCTGCTTGGTGATCCTACTGCTCTTTGCCCTGATCCAGTGGCTGGCAG
TGCCAGATGAGGAAGAAGACAAGACAATGTTGGCAGAAAGAATTCCCTGTTCCCTCCAGTCCCGTTCCCTATAGCAA
CCATCGACTTGGTACAGCAACAGACAGAAGATGTGATGCCACGCATTGAGCCCAGACTTCCACCCAAGAAAACCTA
AGCACCAGGAAGAACAGGAAGATGTGAACAAACCAGCCTGGGGAGTCAGCTCTTCTCCCTGGGTGACCTTTGTCT
ATGCACCTTACCAAATTAAGAGATGATGCAACTCACAAGAGACAACCGTGCTTCTGAGATACAGCCTTTACAGG
GGACCAATGGGAATAGGGAAAATTCTCCTGCTGGTAGAGCCCAGCCTGTCCCATGTGAGACTCACTCTGACCCAT
CTAGAAACCAGCCATCCCCTGACGCAGCAGCATCTCAGACGCAGACCAGCCCCGCTCACCCAGTGTGGACCCGT
GCACAGAGGAGAGTGAAGAGCAGCAGGCTCAGCTGGCCGCGGGAGGACACTGAGGGGCATCCTGCTCATCTCACAC
CCTGCATGGAATCAGGCTCCTCAGCCAGGACACAGGGTGAGGCCCCCAGCCAGGATATGCCTCCCCTGGAGGAG
CACAGCACTGCATATGCTTCTAAATATCTAAACTCATTAACATGGAAACACACACACAGGAGCTACAGTACATAT
TGGCAGAAAAAGGTAACTTTTCGTAATCTCATTGGAATTACAACAGGGAAATGGAGTTCAATGAGGACTTTCAGT
TCTTTGCTTGGTTAGGTTAAGGATGATAGAATTTCTCTGCCAGTGCAGTAAGAGTTGAAACCGGCAGTTACACTA
AGTAAGTGGAGGGAATGAAAGTGTTCGAGGTGAATGTGGATATAATTTCCCTCTTCTGATTATTTATTCTTATT
TGGTTCCTAACACAACTGGGAAGAGATAGAATTCATCTATACTTTCTTTTTTCTTGGAGAGAACCGTTTAAAAA
ATTACAAGATATATTTAAAAAGTAACCAGATAAAAGTAGCACATGTGCTTTTGTTAAAAATAAAGTTAAAAAGTTA
AAGTTAAAAAATGAAGTTAAAAGTTTCATCAGAACTTTACATATCTTTAGCAAATATATTTTTATATGTGTATG
GCATATAATGGAAATAATTCTTTGAGCAACAGAAGCTATTATTAACCTACTGCAAGCTAAGCCGAGCTTAAAAATG
CCTTTTGTTTAAATGGGCTTTGAGAAAAA

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FIGURE 2311

MWGS LGWGLAMLSVGIGIDYTHIEVLIDGKGCKPPEYRNYQIVFIVFGVLTMALIVATQFRFRYNHFKNDDSKG
KEVEIPQVERN NSTESSEETPTTTS HSQAFNFWDLIKLLCSVQYGSVLFVAWFMGFGYGFVFTFLYWHLEDLNGT
TTLFGVCSVLSHVSELTAYFFSHKLIELIGHIRVLYIGLACNTARYIYISYLENAWTVLPMEVLQGVTHAAIWAA
CISYLSAAVPPELRTSAQGILQGLHLGLGRGCGAMIGGVLVNYFGAAATFRGIGMACLVILLFALIQLWLA VPDE
EEDKTMLAERIPVPSSPVIATIDL VQQQTEDVMPRIEPRLPKKTKHQEEQEDVNKPAWGVSSSPWVTFVYALY
QIKEMMQLTRDNRASEIQPLQGTNGNRENSPAGRAQFVPCETHSDPSRNQPSPDAAASQTQTSPAHP SVDPCTEE
SEEQQAQLAAGGH

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FIGURE 2312

GGAATTAGCCTCCTCAATGAAAAAGAAAGAGGGGGAGGAAGAGGAAGAGAAAAAGAAGAAAAACCTGAAACATG
GTTTCATTGGATATTACCCGAACTGCTACAGAACAACACGCTGCCCGATTACAGCCCGGGGGAATCTTTTTTCA
CTGTCTTTGGGGTTTTCTTCCCAGCGGCTACAGGAGTCATGGCCGGTTCAACATGGGGGGCGACCTCAGGGAGCC
TGCCGCCAGCATTCCTTGGGCTCCCTGGCAGCTGTTGGCATCTCGTGGTTTCTGTACATCGTCTTCGTCTTCCT
CCTGGGCGCCATCTGCACTCGAGAGGCCCTTCGCTATGACTTCCTGATAGCGAAAAGGTATCCCTCATGGGCTT
CCTGTTCTTTTGGGCTTATACATCTCGTCCCTGGCTTCCTGCATGGGAGGACTTTATGGAGCTCCCCGCATCCT
GCAGTGCATTGCCCAGGAGAAAGTGATCCCTGCACTTGCTGTCTGGGACAAGGGAAGGGGCCAAACAAAACACC
CGTGGCTGCCATCTGCCTGACCAGCTTGGTGACCATGGCCTTTGTTTTTGTGGGTCAAGTGAACGTTCTGGCCCC
CATCGTCACCATCAACTTCATGCTTGACATACGTTGCAGTGGACTACTCTTACTTCTCCCTGTCCATGTGTTCT
GCAGCCTGACCCCGGTGCCTGAGCCGGTGCTCAGGGAGGGCGCAGAAGGCCTCCACTGCTCTGAGCACCTGCTCT
TAGAGAAAGTCCCAGTTACGGCTCTGAGGGACCTGCCCAAAGAGTCTTGGAGGGCACGCTACTGGAATTCACCA
AGGACATGGATCAGCTCCTCCAGCTAACCCAGGAAGCTTGAGAGTAGCCAGCCAGGCAAGGAGATGGTAACAGGA
CCCCAGAAAGTCAGAAGAGGAAAAGCAAGAAGGCCACCAAGCAGACCCTACAAGATAGCTTCCTCTTGGACCTCA
AATCCCCCTCCTTCTTTCCCTGTGAGATCTCTGACAGGTTGCCCGCTGCCTCCTGGGAGGGGCAGGAGTCTGCT
GGAACAAGCAGACTTCCAAGAGCGAAGGGACTCAGCCTGAGGGAACATATGGAGAGCAACTTGTTCTGAGCTGT
GCAACCAATCAGAGTCCAGTGGAGAAGATTTCTTCTGAAGTCCAGGCTCCAAGAACAAGATGTCTGGAGAAGAT
CCACTTCTTTCTATACCCACATGTGCAACCCCTGGGTCTCCCTGTTGGGGGCTGTTGGGTCCCTTCTCATCATGT
TTGTGATACAGTGGGTGTATACCCTGGTTAACATGGGTGTTGCTGCCATCGTGTATTTCTACATTGGCCGGGCCA
GTCCAGGGCTTCACCTTGGATCAGCCTCCAACCTTCAGCTTTTTCCGGTGGATGAGGTCTCTCTTGCTCCCCCTCCT
GCAGGAGCTTGCACTCCCCCAGGAGCAGATCATCTTGGCGCCGTCCCTGGCTAAGGTTGACATGGAGATGACTC
AGCTCACCCAGGAGAATGCAGACTTCGCCACTCGGGATCGCTACCACCACTCCTCCCTCGTGAACCGGGAGCAGC
TGATGCCTCACTACTAGATGCAGTGCTGGGACCTTCCTCTTTTGGAGCTGTCCCATGTACAGTGGACCCAAGCCC
AGGACCTTCGTGGAGCTGCTTCTCCAACCTGAGAACTCAAGACCCATCCTCCCGCTGTCACTTTGGACAATGGA
AATCTACATTTTCTTTTCCCTTTTTTTTTTTTTTTTGGAGACAGAGTCTCGCCTTGTCACCCAGGCTGGAGTCCAGTGG
CACAATCTTGGCTCACTGCAACCTCTGCTTCCCGAGTTCAAGCAATTCTCCTGCCTCAGCTCTGAGTAGCTGGGA
TTATAGGCATGCACCACCACCACCCAGCTATTTTTTGTATTTTACTGGAGACAGGGTTTACCATGTTGGCCAG
GCTGGTCTCGAACTCCTGACCTCGTGATCCACCCGTCTCAGCCTCCCAAAGTACTGGGATTACAGGCGTGAGCCA
CCATGCCTGGCCAGAAATCTATGTTTTCTTAGAACATGTGGAAGAAGGAAAAAGACAAAAGGAAGTCTGGATTCT
TGAGGACCACGTCTCACCCAGGGTGACATCAGGAATGGTGCTAGCCTCTGCAACACGACACCCAGTTTGAAGAGC
TCTATACAGGTACTAAGACTAGCAGGGGACACCAAGACTCTGCACAACCAGATTGCTTGTGCAGAGGGCCACAAT
AAGTGTATGTTTTATATTTTATTGTATTATTTATTCAAAAATAAATAATACACTCACATGTTTCCACACCCAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2313

MCSCSLTPVPEPVLREGAEGLCSEHLLLEKAPSYGSEGPAQRVLEGTLLEFTKDMQQLQLTRKLESSQPRQGD
GNRTPESQKRKSKKATKQTLQDSFLLDLKSPPSFPVEISDRLPAASWEGQESCWNKQTSKSEGTQPEGTYGEQLV
PELCNQSESSGEDFFLKSRLEQDVWRRSTSFYTHMCNPWVSLLGAVGSLLIMFVIQWVYTLVNMGVAAIVFYI
GRASPGHLHLSASNFSFFRWMRSLLLPSCRSLQSPQEQIILAPSLAKVDMEMTQLTQENADFATRDRYHHSSLVN
REQLMPHY

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FIGURE 2314

CTGACGACTTGAAGCCAGAGGCACCGCCAGTTGGCCCCAGCCCGCAGCATGGCAGCCGCCGCCTATGTGGACCAC
TTCGCCGCCGAGTGCCTCGTGTCCATGTGAGCCGCGCGGTCTGTGCACGGGCCGCGGGAGGGGCCGGAGTCCCGG
CCCGAGGGCGCGTCCGTGGCCGCCACCCCCACGCTGCCCCGCGTCGAGGAGCGCCGCGACGGTAAGGACAGCGCC
TCGCTCTTCGTGGTAGCGCGGATCCTAGCGGACCTCAACCAGCAAGCGCCGGCGCCCGCCCCGGCGGAGCGCAGG
GAGGGCGCCGCGGCCCGGAAGGCGAGGACCCCTGCCGCTGCCGCCGCCCGCCCCCATGAGCCACCTCCCCCG
GCGCTGAAGGCGCGGCGAGCCGCGCCCCCAGCCCGGCGTGGAGCGAGCCGGAGCCCGAGGCGGGGCTGGAGCCC
GAGCGGGAGCCGGGGCCCGCGGGGAGCGGGGAGCCCGGCCTCAGACAAAGGTTCCGGCGGGGGCCGAAGTCGCGCC
GACCTCGAGTCCCCGAGAGGAAGCACAAAGTGCCACTACGCGGGCTGCGAGAAAGTTTACGGGAAATCTTCGCAC
CTCAAGGCGCACCTGAGAACTCACACAGGTGAGAGGCCCTTCGCCTGCAGCTGGCAGGACTGCAACAAGAAGTTC
GCGCGCTCCGACGAGCTGGCGCGGCACTACCGCACACACACGGGCGAGAAGAAGTTCAGCTGCCCCATCTGCGAG
AAGCGCTTCATGCGCAGCGACCACCTGACCAAGCACGCGCGCCGCCACGCCAACTTCCACCCGGGAATGCTGCAG
CGGCGCGGCGGGGGCTCGCGGACCGGCTCCCTCAGCGACTACAGCCGCTCCGACGCCAGCAGCCCCACCATCAGC
CCGGCCAGCTCGCCCTGAGCCCCGCACAGCCATGAGCAGCCGCTCCCACCCCTCGTGAGTCCCTGGCCTTTCCTT
TTGTTATAAGAAAGAAGAGAGAGAACTTGATGCCAAGTCCACGAAAAACAATTTTTTTTACCTCAGGTGTCAAA
GTAAATTTGTTAAAAAAAAAAAAAAAAAAAAA

2603/2825
FIGURE 2315

MAAAAYVDHFAAECLVSMSSRAVVHGPREGPESRPEGASVAATPTLPRVEERRDGKDSASLFVVARILADLNQQA
PAPAPAERREGAAARKARTPCRLPPPAPMSPPPPALKARRAAPPSPAWSEPEPEAGLEPEREPGPAGSGEPGLRQ
RVRRGRSRADLESPQRKHKCHYAGCEKVYGKSSHLKAHLRTHGTGERPFACSWQDCNKKFARSDELARHYRTHTGE
KKFSCPICEKRFMRSDHLTKHARRHANFHPGMLQRRGGGSRTGSLSDYSRSDASSPTISPASSP

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FIGURE 2316

GAATTCCGGCTCCCGCGGCTGCAGGCGCGCCTAGAGTGCCTGGCGGGCTCCGGCTTCCGCGTCCGCCCCGGCC
CCGGTCCAGACTTAGTCTTCAGCTCCGCGCCCGCTCCGCGCGGGCCACCGCGCCCGCCGGCAGCCGAGCCCCCA
GCGACGCCCCGCACAGCTCCGGGTGCCAGACAGGGGGCCATGCCGTGCCGGAGGGAGGAGGAAGAGGAAGCCGGC
GAGGAGGCGGAGGGGGAGGAAGAGGAGGAGGACAGCTTCCTCCTACTGCAGCAGTCAGTGGCGCTGGGCAGCTCG
GGCGAGGTGGACCGGCTGGTGGCCCAGATCGGCGAGACGCTGCAGCTGGACGCGGCGCAXGACAGCCCGGCCTCG
CCGTGCGGGCCCCCGGGGGCGCCGCTGCGGGCCCCGGGGCCCCCTGGCTGCGGCGGTGCCGGCGGACAAGGCCAGG
TCCCCGGCGGTGCCGCTGCTGCTGCCGCCCCGCTTGGCGGAGACTGTGGGCCCCGGCGCCCCCTGGGGTCTGCGC
TGCGCCCTGGGGGACCGCGGCCGCGTGCAGGGCCGCGCTGCGCCCTACTGCGTGGCCGAGCTCGCCACAGGCCCC
AGCGCGCTGTCCCCACTGCCCCCTCAGGCCGACCTTGATGGGCCTCCGGGAGCTGGCAAGCAGGGCATCCCGCAG
CCGCTGTGCGGTCCGTGCCGGCGAGGATGGCTCCGGGGCGCCGCCGCTCCCGCCGCTGCAGCAGCGACGCGGG
TCCCAACCAGAAACCCGCACAGGCGACGACGCCGACCGGCTTCTGCAGCAGCTAGTGCTCTCTGGAAACCTC
ATCAAGGAGGCCGTGCGAAGGCTTCATTGCGACGGCTGCAGTTACGTGCAAAGCTTCCCCAACGCCCGCTCCTG
GGACCTCTGTGCGCCCCGGTGCATGAACCCCCCTTCGCTCGCAGCCCTCGCGCGGCCTGCAGTGACCTGGCGCC
TCCGGGAGGGCGCAGCTCAGAACTGGCGACGGCGTTCTTGTGCCTGGCAGCTAACAGCCCCGGGGTGGCCACAGC
GCCAGCCTCAGACTGGAGGGCAAGGGGTTCCTTGAGGGCTGCAGTTCTACTCAGGCTGGTGGAGAACTCTGGCT
TTTGGAAGCGAGAGTAAAAAGCTAATGACGAGGAACCGAAAAATCGCGAGTGTTTCGCGGGTAACTGGGGTTGAG
GGCCAAAATATTTGGAATGAAGGACTTGGCCCTATTTAAGGCAGATTTTACAGAGCGCACCTCAAACGTACAAGT
CAGTAGGACTCCTTATTTGGCGTGACCCGACCTGGCCGCGGAGCCTGCATTTCTCGCAGCCTCTCAGTGCCCTC
CAGCCCCGCGACCATGTGGCCACAATCCACGCTTCTCCGGATCGCGGTGCGCCGGAACACGGAGGATGATGCCA
GTTACTTGCTTTTACCTTTTTCAGGGCTGGCTCCTGATCCACTTTGGGGGAGGAGAACATGAGTAGATAATTTCAGG
GTGCAGCCCAATCTGCCAGACTTAAAAAAACCATCTTGTGTCTTTGGAGGTGCTGCTTAATATCAAACATGCGGT
GCCATGAAGGGACCCCTTTGGGGGTGAATAGGAGTTAACCCCTGCGCTCTCTTTGCAACTGTCTCTCTTCTCAGA
GTGGTGGGGGAAGGCTGTACGACACGGGTGGGGAAAGGAGGTGGGGGCGGGGAGTATTGAATGGTGGTGAAGGG
TAGAGAGGCGCGGAGTGAACCCACGCCCTGTCTAAAGTGATTTTTAGAGCCGGCCCGCCTCTCCTCGGTTCAG
GGTCACTGTTTCCTGGGCACGCACTGGGTTGCGGGACAGAGTAGCCAGTTTCTGCCGGTGCTCGGAGAAGAGCGC
AGTGTTTTTGCAAGTGCTGGAGTCTCCTGAGGACACGCGCTGCGCGCCACCGCGGTGTGGGAAAGCGCGACGT
GCTGGGCGTCTGTGCTTCGGTAGGCGACCACGCCCCCTGGCCGCGCTCCGGGCTTTCACGGAAACTCCCGAGACC
GGGCCCTGGGTTCCTCCTCTCCTACTCGGCTCTGCAGTCTACTCAAGCGGTGGCTCTGGGATCCTGGGGGCCT
GGGTTGGGGGCTAGGGAGACGCCATGTGATGGACACTCCAGGGACACACAGCCTAGCACAGCAGCTTATAATGGG
CTCTCCGGGGCCATTTGCAATAACAGCTGCAATTCCTGGATAGACGAGTTGATTTCTCCTCTGCCCCCTCCCC
CAGCCATGCCAGCTGGCCTTTGTAAGTGACAGGAAACCGAGTAGAAAATGTGACCCTCAAATGGAGAAGCTGCCA
GCTTTGCCATTGTGAACCATGGTGAAGTGCTTGAACATACTGTTCACTCACTCTAAAGGCGCTGAGACTGTGCT
GTTGTTCTCGTTTTTATAGTCAATGGCTTGTTTCATCATCCAGATGTGGCTACTGACATATCTACACTTCGCACCG
GAGTGTCTGGAATTGTGGCTATCCTGATTATAGGATTTTAACTTAACTGAAATGCCTGCTTTGAATAAATGTGTT
GGGTTTTT

2605/2825
FIGURE 2317

MPCRREEEEEAGEEEAEGEEEEEDSFLLLQQSVALGSSGEVDRLVAQIGETLQLDAAXDSPASPCGPPGAPLRAPG
PLAAAVPADKARSPAVPLLLPPALAETVGPAPPVLRGALGDRGRVRGRAAPYCV AELATGPSALSPLFPQADLD
GPPGAGKQGIPQPLSGPCRRGWLRGAAASRRLQQRGSGQPETRTGDDDPHRLQLQLVLSGNLIKEAVRRLHSRRL
QLRAKLPQRPLLGPLSAPVHEPPSPRSPRAACSDPGASGRAQLRTGDGVLVPGS

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FIGURE 2318

CAGGAAGAGGTATTTCTTGGGGATGCTACCAAGGCAGAGACTGTGAAGAAGGAAGAACGTTGCTTGGGCAAAAGG
AGCATATTCTCAGGAGACGGGGCCCCCTGCCTGCCACACCAAGCATTAGGCCACCAGGAAGACCCCATCTGCAAG
CAAGCCTAGCCTTCCAGGGAGAAAGAGGGCCCCCTGCAGCTCCTTCATCATGAACTGGCACATGATCATCTCTGGGC
TTATTGTGGTAGTGCTTAAAGTTGTTGGAATGACCTTATTTCTACTTTATTTCCACAGATTTTTTAACAAAAGTA
ACGATGGTTTCACCACCACCAGGAGCTATGGAACAGTCTCACAGATTTTTGGGAGCAGTTCCCCAAGTCCCAACG
GCTTCATTACCACAAGGAGCTATGGAACAGTCTGCCCCAAAGACTGGGAATTTTATCAAGCAAGATGTTTTTTCT
TATCCACTTCTGAATCATCTTGAATGAAAGCAGGGACTTTTGCAAAGGAAAAGGATCCACATTGGCAATTGTCA
ACACGCCAGAGAACTGAAGTTTCTTCAGGACATAACTGATGCTGAGAAGTATTTTATTGGCTTAATTTACCATC
GTGAAGAGAAAAGGTGGCGTTGGATCAACAACCTCTGTGTTCAATGGCAATGTTACCAATCAGAATCAGAATTTCA
ACTGTGCGACCATTGGCCTAACAAAGACATTTGATGCTGCATCATGTGACATCAGCTACCGCAGGATCTGTGAGA
AGAATGCCAAATGATCACAGTTCCCTGTGACAAGAACTATACTTGCAACTCTTTTTGAATCCATACAGGTCGTCT
GGCCAATGATTCTTTTACTTACCTATCTGTCTACCAGTAGCGTCCCTTGCCATTGGGAACTGAGCTTCTTTC
TTCTGCACTGGGGGACTGGATGCTAGCCATCTCCAGGAGACAGGATCAGTTTTACGGAACAACCTCAGTTAGTAT
AGAGATGAGGTCGCTTCTGTAGTACTGAGCATTCTGACTGATCAAAAAGGCCTAGTCTGTTGACAGGGTTTGT
TTTATTTTAGCCTCAGAGTATAACCATACTACTAGGGAGTAAGTGTAGAGTGAGAAATTATAAACATTATTTAGGG
ATTACCATGGTGGAAGAGGGATAAACATAGGTCCTGTGACTTCGTCTCTGTTCTCAAGGGAACCCCATTCACATG
CCCCCTCTAACTCCACAAGCGAGGGTAGCAGAGGCTCTCCTCAGTCTGAACCTAAGGCTTGCCCTTGGGGAGGGCT
CCTAGTGCTGAGCTTGGAGCAGCACGGACAGCAGCATTGTTTATGGGAATGGAGAGAGGTCTGGGCAGGATAGGA
ACCTTCTTGGAGACCCCTTTGAAGAAAACCAGGCAGCCAAGGGAGCCAAACACACTAGATTTCTGTTCTTCAGCA
AAGCCCTGAAGAGACACTTAAGCTAAAAATTCCCTTGTCATATTTCTGAAACTCCATTATAACATATGTAACCTC
TTTGTAACCAAAATTTAGGTAAGCAGGCTTCCTTTGCTCTGAAGTTTTGAGTACCTGGCTGTATTTGTTGAGTA
TTTTTAAAAATTTTGGATAGTCTCTTAGGCAACAATAATCACAATATATTCACTCCCTTCAGTTCTGGAGAAAGCCT
GATACCAGCACAGCCTACTGACCCCAAGGAGCCTGGCACTGATTGGCATCACATTGATCTAAGAACTGGTCCAGC
CGACGAAGAGTAGGAAAAGAGAAGGGCTGCTCAGGGAACATTGGCTGGGGGCACGGAATAAGCACATAGTAAAA
AGGGAACATCAGGGTCAATGGAAATCACCTGAGACAGGAAACAGGGAGTTTCAATTTGGCCACACTGGAAGAAAGG
CAAGAAAGAGGAAGACAAGTCTTGGGGTACCCTGGCTGTTCTCCACACTCACAAGACATCAGCTATATACTCTGC
TTGGTGCATAAGAGAGAGAAAAGAGATGCCTTTTGTGTTTTGAGTAAGAATAATTAAACCATAAGGAAGACCATG
TATAAACTGATGGAAATAATAGTCACCAAAGTACAGCACATACCATTTTGTGTCTAATAACAATGTAGCACAGT
AATGACTGTACATGTCATTGTATGTATACCAAACAAGATTGTTGTAAATCATATTTTTTATTACAACACTAAGTT
CTGCTTCTGCATTCTAGGTTTCATCATTTTTTGGCTCCTTAGCATGGCCACTTACAATTTTTTAAACATGAGATAA
CACATCAGGTGTCAGAACTTGCTTGAAGGGAATTACCAGAAGTAATTTGTGTTTGAGATGGGGTGGAAATTGGAA
TTATATTAGTAGCCGGTGGAGATACAAGTTCTCTGACTGTGTTGGGAAAGGATAAGTGCTACCGTTGAGAAGGGA
AGAAAGGCTGAGTCTAGGTGGAGAAAAATATCAACAGAACTCTAGCCAAAGGCAAGCCCCAGAACTCAGACAACA
GAAAGGAAATCCTAATCCTTCTGTTTTGAGAAGAGAGAACTGTAGTTGCTTCACTTCCTATTTTCATGACAGAATA
ACTGCAAACTTTTAAGATCAGGAAATGTAGACATCTAGTGATTCTTTAGTAGACAGTTTAATTTCCCCCAAGAT
TAGGAGACACTTCTGTGCAGGTTCTAAAAGGAGCCCAATGGCCTGGGGTGGGAGTGGGGAGTAGATAGGGAATAT
GTGGGATTTGGTTTAAAGTTTCATCATTGGGAGAGTTCCTGGATCCTTGCAAGCTTAGATAAATGTGATCTTTATTA
GATAGCAGTGGCATGCTTTTTAAAAAAGGCAATGAAAATTTAGCAAGCCACTGAATTTGAGTTTTTCACTTT
GTTTCTAATATGCTGTGTGAATCAGTACAGTTTTCTTACCCTTTCTTGGTCTTAATTTCTTACTGATAAAATGG
GGTAGTAATACCTATCTCAAAAAATATTGCACATATTAATAACATTCTCTATGTATCTCAATGGCATTAGACA
TTAGGAGAAGCATTTTGTGGAGGATTTGAAGTTGAGATCTTCATCCAAGAAGTAGCTTTTCAATTTGCTAGAAGC
TTAATGTAGGCAAGCCACTTCATTTTTTCAGAACTTGTTTACTCATTTATAATATGGGAATAAAAAATTTGTGCAAG
TCAGAGAAGGTTGCCTTAAAAATGTTGTGGCCAAGCCACATGAGATCAAAGACACACTTTTCATGACCTCAAATG
TGGGCCCAGCCTAGGTGAGCAACCCCATCCAACCTTAGACTCACGAACAAATCCACCTGAGATCAGCAGAGC
CACCTAGATCAGCTGAACTCTAAGCACAAAAATAAAAACTTATCACTGTATACCACTGGAGTTTTCTGTTTAT
CTCTCGTATAGCAAAATCTAACTGATGCAATCTCCATCTGGCCTTCATCCTTCTCCCTTTATTGTCCTTCTGTGT
ATTGTTTCATCCAGCAACCAGGATGATCTTGTTAAAACATTAAACAGATTCTGTCACTCTT

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FIGURE 2319

MNWHMIISGLIVVVLKVVGMTLFLLYFPQIFNKSNDGFTTTRSYGTVSQIFGSSSPSPNGFITTRSYGTVC PKDW
EFYQARCF FLSTSESSWNE SRDFCKGKGSTLAIVNTPEKLKFLQDITDAEKYFIGLIYHREEKRWRWINNSVFNG
NVTNQNFNCATIGLTKTFDAASCDISYRRICEKNAK

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FIGURE 2320

GGGGGGGGCGGGGCGCCAGCGGGATGCGGTGAAGGGCGAGCGGCGGGCTGCG**ATGA**GTGCCTCTGCGGCC
ACCGGGGTCTTCGTGCTGTCCCTCTCGGCCATCCCGGTCACCTATGTCTTCAACCACCTGGCGGGCCAGCATGAT
TCCTGGACTATTGTAGGGGTTGCTGCCCTCATCCTGTTCCCTGGTAGCACTGCTGGCTCGTGTCTCGTCAAAAGA
AAACCACCCCGGGACCCACTGTTCTATGTGTATGCAGTTTTTGGATTTACCAGCGTGGTGAACCTCATCATAGGA
CTGGAGCAAGATGGAATCATTGACGGGTTTCATGACACACTACTTGAGAGAGGGTGAACCGTATCTGAACACCGCA
TATGGGCACATGATCTGCTACTGGGATGGCTCTGCTCATTATCTGATGTACCTGGTGATGGTGGCAGCCATAGCA
TGGGAGGAAACTTATAGAACCATTGGCCTATATTGGGTTGGATCTATTATTATGAGTGTTGTTGTTTTTGTGCCA
GGAAACATTGTAGGGAAGTATGGAACACGAATTTGCCCTGCTTTTTTCTTAAGCATACCATATACTTGTCTTCCT
GTCTGGGCTGGTTTTCAGAATCTATAATCAGCCATCAGAAAATTATAATTACCCCTCAAAGGTTATTCAAGAAGCC
CAAGCGAAAGACCTGCTGAGAAGACCATTTGATTTAATGTTGGTTGTGTGTCTCCTCCTGGCAACTGGATTTTGC
CTGTTCTAGAGGTTTGATTGCTTTGGATTGCCCATCTGAGCTCTGCCGATTATATACGCAATTTCAAGAGCCCTAT
CTAAAGGATCCTGCTGCTTATCCTAAAATTCAGATGCTGGCATATATGTTCTATTCTGTTCCCTTACTTTGTGACT
GCACTGTATGGCTTAGTGGTTCTGGATGTTCCCTGGATGCCTGACATCACATTGATACATGCTGGAGGTCTGGCT
CAGGCTCAGTTTTCTCACATTGGTGCATCTCTTCATGCTAGAACTGCTTATGTCTACAGAGTCCCTGAAGAAGCA
AAAATCCTTTTTTTTAGCATTAAACATAGTATATGGAGTTCTTCCTCAGCTCTTGGCCTATCGTTGTATCTACAAA
CCAGAGTTCTTCATAAAAACAAAGGCAGAAGAAAAAGTGGAAT**TAAAA**ATATTACTTCATGTTCCCTCCTTTCTAAA
TTACTAACTTTTGTATATACTGGTACTGATATTTTGTCCTTTTCACTCTCTTCTCATACGTGAGTACTTAAGAAT
ATGTACATTCTTGCTCTGCACTGTATGTGTGAGCTATATGGTATTGTGTAAATTTTTTTTGAAGGAAAATGGAAA
TTCTTGAGAAACAGTTTGTTTAAAGAAATATATTCAAATCATTGTGAATAAACTTGATCATCCATCTCAAAAA
AAAAAAAAAAAAAAAAAAAA

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FIGURE 2321

MSASAATGVFVLSLSAIPVTYVFNLHAAQHDSWTIVGVAALILFLVALLARVLVKKPPRDPLFYVYAVFGFTSV
VNLIIGLEQDGIIDGFMTHYLREGEPYLNTAYGHMICYWDGSAHYLMYLMVAAIAWEETYRTIGLYWVGSIIIMS
VVVFVPGNIVGKYGTRICPAFFLSIPYTCLPVWAGFRIYNQPSENYNYPISKVIEAQAKDLLRRPFDLMLVVCLL
LATGFCLFRGLIALDCPSELCLRYTQFQEPYLDPAAYPKIQMLAYMFYSVPYFVTALYGLVVPGC SWMPDITLI
HAGGLAQAQFSHIGASLHARTAYVYRVPEEAKILFLALNIVYGVLPQLLAYRCIYKPEFFIKTKAEEKVE

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FIGURE 2322

CATTTGCTATGAATATTCTCTATAACAAAGCAAGACAAATTTAGCAGCACTTCATTGCATCTGGATGGGGGAGAG
AGCTGGACAATTTCTTGCTAACAAAGAGATGGTTAACTGCCCTCACCTCAGCCGTGAATTCTGCACACCTCGCATC
CGGGGCAACACCTGCTTCTGCTGTGACCTCTACAACCTGTGGCAACCGGGTGGAGATCACTGGTGGGTACTACGAA
TACATCGATGTCAGCAGTTGCCAAGATATCATCCACCTCTACCACCTGCTCTGGTCTGCCACCATCCTCAACATT
GTTGGCCTGTTTCTGGGCATCATCACTGCCGCTGTCTTGGAGGCTTTAAGGACATGAACCCAACCTCTCCAGCA
CTGAACTGTTCTGTTGAAAATACCCATCCAACAGTTTCTTACTATGCTCATCCCCAAGTGGCATCCTACAATACC
TACTACCATAGCCCTCCTCACCTGCCACCATATTCTGCTTATGACTTTTACAGCATTCCGGTGTCTTTCCATCCTCC
CCTCCCTCTGGACTTTCTGATGAGCCCCAGTCTGCCTCTCCCTCACCCAGCTACATGTGGTCTCAAGTGCACCG
CCCCGTTACTCTCCACCCTACTATCCACCTTTTGAAGCCACCACCTTACAGTCCCTAAAGAGGAATGCCTGCT
GGCTATTGAGATTATTGTGGCTTTTGTATTTCTGCTTCAGTGAAGTGTGTAGGGTACAAAATTTAAAGTGTGAC
TCTTATGCATAAAGTTTACAATGGCCTGCCAGGCTAGGGAAAGATAGGGACGAAGCTTATTCAATTATTAGTGCA
GAGCAGGGGTGGTCAGGCTGAACGCAGCACAGAAGGGCAGCTCACATTCTCTAAGCAAGACTGGGGAGCCAGCCC
AGCAAGAAGCTTGTTTGGACTTGCAATTACCCTATGCTCCACCTCTGTATTCAGCAGAAGTGTGGTTGCCATCTTT
TTCACCTTTATGTAAAGGAGTGTGGCCCTCGGGCCCTTGGCAGATTGCCACCCAGCACCTAGGTTGAAGCACCTG
GTTTATAGGCCCTATCTTTCCCTACCCCTAAAGTCAGTCCCTAAGGACAATTTCCAGCTGATGGGGCTACACAG
TAGTTCCAATACAGAGAGTTCTGGCTAAGATTTTGTGGCTTGTGTCTGGATGTTGAAAAGACTGCCCGTATCT
CTTACTCCTTCTTCTCTGTGAGTATTGTAAAAATGGCTGTTGTGATCACTCAGCTCAGCTTTTGTATTGGTAC
CTCCTAAAGGGAAAAAGTGCAATATTCTTGCATCTTCAGTAGTGGGGAAACAGGATGTATTGTTCCGGAAACACTGA
AATACACAGCAACATGTGAGATGTTTAAAGTAGATCACTTAGGAGACAGTGGTTCTACTACATGTTGCATTATTA
CAAAATACATTTGCTACAGGAGATATAAATCTTATGGTTGTAATTCAGAGTTTAAAAATGTTATAAATTAGGTTT
TTGGGTCTGTGATATGAATTGTTACTAATCTTTGTGACTATTTAATCTTCAAATATTGTGCTTAACCCAGCAATC
CGCACGTATCCTGCACCCCAACCCAAAAGAGTCATCTGTATTTAATGCCACTGGTCTTATCGGTCTTTTGTCT
GTTGAGACCAGTCATGACAGCATTCAAGATTATGAAAGTGTTACAATGCCGCTTCAAGTCTGCAAAACCTCAAAC
GTAGCCAACTTGACAAATATTTAAGTGTTACGGCAGATTTAAAAATCCATCTGGCACACCGTGGTAGGTATTTGTA
CAGTTCTTTTAATTACACATAGCTTTAAACCATCAACCTGATGAGTTTAAAGCTTTTGACCCATGCCTTCACTT
CAGAATGAACACCTTCATTGTGATCTTATGTTAACCTGAGAATTGATTTAAAGGAAGATTGATAATCCTATACTT
TATAACGTAAAAATACAGGGGCTACAGGAGGGTACCTAATTAGACAGTTCTCCAAACACAGAACACACACTGGAA
AATTTTCCGGCCAATTTTGCTACCTCCCAACTTGATGGATTAGAGGTAGCGCATATGCTGGTGTCTCCATCTACC
TTGTAGACACTTAGCCATCAAGAATCAAGGCACAAGAAGTGCACTCTCTATTAAACAGTAAATGTTTGCAAGATA
TTCAGTTTAACTTTCAGCATCATGAATGTTCTTATCCAGATTTTGAATCCGAAAACTATAATCCTTTTATGTTA
TACAAAATTACTATGATTTTTTACAGTTCTGAGCATATTAATAATCTACTGGATTTCAAAAAGAGACTAATACCC
AACTGACTAACTAAACAAATATCAACTTGTAATACTCAATGAATTTTTTTGCCATTTACATTTGACCGTTGGCTT
TAGTGAATGTCCATATTTAATTTTTTAAGGCACCATTACACAGTTTATCCTACATTTATCACATTTCTTAAAGTG
TTAAGATTCTATGGCTCATTTCTATGTATTTTCTTACTTTACAAAATAACCTGAAACAGTATAGATTTTGTAAC
ACTTAATTTGAGCAGCTTTTTTATTACATTGAATTATATAAAGTGCATGTTACCTTAGAAAAATTAGTATTTGCT
GCTTTACTCTTTTGCAAAACATTTGCTGTAATGAATGGATTTGTATTTCCAATATGTATCTTGACTGCATTTTGT
AATATTTACTGCTTTATTCCCTAATTCTGCTTTAAAGTACTGAACTGGGCATGAAACATTAAAAATATTAATCCAGA
AACTGTATAAACTGGATGTTGCTTAAATCTGTATCACTGCCATGTTGAAAATTCAGACTGCTTTTGTGATGTTT
CAAAATGAATAAACTATCCTCCCCTCGTT

A

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FIGURE 2323

MVNCPHLSREFCTPRIRGNTCFCCDLYNCGNRVEITGGYYEYIDVSSCQDIIHLYHLLWSATILNIVGLFLGIIT
AAVLGGFKDMNPTLPALNCSVENTHPTVSYYAHPQVASYNTYYHSPPHLPPYSAYDFQHSGVFPSSPPSGLSDEP
QSASESPSYMWSSAPPRYSPPYYPPFEKPPPYSP

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FIGURE 2324

AAGGCTATTATTACCACCACTGAGTGGCTTAAATAATCCTGTCAACAGCAATCGCCCATTTCCAAAGCCATGGTG
AAACATCTCTGTGCTAATTTCTTTTGTTTTGTTTCCTAATTTTTTTTTTTTGGCAGGTGGTGGGAAATAATCTTT
GTCTTCTTTGGAGTAAACCTTCAACACCGGATTTTTCTTTTAATTATGGATGTAAACCCCAATATCCCCATAAT
TTACATTGGGTCTCGACCAATTGCCTAATTATAAGAGGATATATTTAGGCTCTTATTTTCATCCACACAAAACTT
GTGTAACAGGTAGTTGGAACATCTGAGGCACCACTTTGATTCTGTTTTGGATGGTCATGTTTTTCTCCTCCGT
TTCCCCAGCATGTCTGCCACCATCCTCATGCACTGCTTCCAAGTGCCTGGGAGCCTTTATGAGCGTCCCTAAACC
TAAAAGAATCCAGAGGCGGGGCTCGGATGAACCCTCGAGATAAGCAAGTGAGCCGCTTCTCCCTCTAAAGGATG
TTTACACGTGGGTGGCACTCGCTGGAATCCAGCGCTCGGGCAGCCCTGGGAGGACGCGCTCAGCTGCGAGGAGGA
TGGAGAGCAATACATCATCATCTTTGGAGAATTTAGCGACGGCGCCTGTGAACCAGATCCAAGAAACAATTTCTG
ATAATTGTGTGGTGATTTTCTCAAAAACATCCTGTTCTTACTGTACAATGGCAAAAAAGCTTTTCCATGACATGA
ATGTTAACTATAAAGTGGTGGAACTGGACCTGCTTGAATATGGAACCAGTTCCAAGATGCTCTTTACAAAATGA
CTGGTGAAAGAACTGTTCCAAGAATATTTGTCAATGGTACTTTTATTGGAGGTGCAACTGACACTCATAGGCTTC
ACAAAGAAGGAAAATTGCTCCCACTAGTTCATCAGTGTTATTTAAAAAAAAGTAAGAGGAAAGAATTTCAGTGAT
GTTTATACTAATAAGTTTGCTAGTACAGTGTGAGTTATTTAAAGTGGTAATGCCCGATAATGCTTTTTAAATGTT
TGAGGATGTTTTAAATACATGCATTGCTTTCACGAAGAAGATGTAAAAATAATGAACAATAAATTGCGGTGGAAA
CCTAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2325

MNPRDKQVSRFSPLKDVYTWVALAGIQRSGSPGRTRSAARRMESNTSSSLENLATAPVNQIQETISDNCVVIFSK
TSCSYCTMAKKLFHDMNVNYKVVELDLLEYGNQFQDALYKMTGERTVPRIFVNGTFIGGATDTHRLHKEGKLLPL
VHQCYLKKSRRKEFQ

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FIGURE 2326

TTCTCACTATACTGGTCCTGAGGAAAGGGCTTCTGTGAACTGCGGTTTTTAGTTTTATTGTGGTTCTTAGTTCT
CATGAGACCCCTCTTGAGGATATGTGCCTATCTGGTGCCTCTGCTCTCCACTAGTTGAGTGAAAGGAAGGAGGTA
ATTTACCACCATGTTTGTTGCTTCTGTTTATAAGATGTTTTAAGAAAGATTTGAAACAGATTTTCTGAAGAAAGCAG
AAGCTCTCTTCCCATTAATGACTTCGGAAATCACTTATGCTGAAGTGAGGTTCAAAAATGAATTCAAGTCCTCAGG
CATCAACACAGCCTCTTCTGCAGCTTCCAAGGAGAGGACTGCCCTCACAAAAGTAATACCGGATTCCCCAAGCT
GCTTTGTGCCTCACTGTTGATATTTTCTGCTATTGGCAATCTCATTCTTTATTGCTTTTGTCAATTTCTTTCA
AAAATATTCTCAGCTTCTTGAAAAAAGACTACAAAAGAGCTGGTTCATACAACATTGGAGTGTGTGAAAAA
TATGCCCCGTGGAAGAGACAGCCTGGAGCTGTTGCCCAAAGAATTGGAAGTCATTTAGTTCCAACCTGCTACTTTAT
TTCTACTGAATCAGCATCTTGGCAAGACAGTGAGAAGGACTGTGCTAGAATGGAGGCTCACCTGCTGGTGATAAA
CACTCAAGAAGAGCAGGATTTTCATCTTCCAGAATCTGCAAGAAGAATCTGCTTATTTTGTGGGGCTCTCAGATCC
AGAAGGTCAGCGACATTGGCAATGGGTTGATCAGACACCATAACAATGAAAGTTCCACATTCTGGCATCCACGTGA
GCCCAGTGATCCCAATGAGCGCTGCGTTGTGCTAAATTTTCGTAAATCACCCAAAAGATGGGGCTGGAATGATGT
TAATTGTCTTGGTCCTCAAAGGTCAGTTTGTGAGATGATGAAGATCCACTTATGAACTGAACATTCTCCATGAAC
AGGTGGTTGGATTGGTATCTGTCATTGTAGGGATAGATAATAAGCTCTTCTTATTCATGTGTAAGGGAGGTCCAT
AGAATTTAGGTGGTCTGTCAACTATTCTACTTATGAGAGAATTGGTCTATACATTGACTGATTCACTTTTTTCATA
AAGTGAGCATTTTATTGAGCATTTTTTTCATGTGCCAGAGCCTGTACTGGAGGCCCCCATTGTGCACACAGGGAGAG
AACATGAGTCTCTCTTAATTTTTATCTGGTTGCTAAAGAATTATTTACCATTAAATTATATGGTGTGGTGT

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FIGURE 2327

MTSEITYAEVRFKNEFKSSGINTASSAASKERTAPHKSENTGFPKLLCASLLIFFLLLAI SFFIAFVIFQKYSQL
LEKKTTELKELVHTTLECVKKNMPVEETAWSCCPKNWKSFSSNCYFISTESASWQDSEKDCARMEAHLLVINTQEEQ
DFIFQNLQEE SAYFVGLSDPEGQRHWQWVDQTPYNESSTFWHPREPSDPNERCVVLNFRKSPKRWGWN DVNCLGP
QRSVCEMMKIHL

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FIGURE 2328

AGATCAGCTGATGCCGGAGGGTTTGAAGCCGCGCCGCGAGGGAGCGAGGTGCGCAGTGACAGCGGGCGGGCGATCGG
ACCCAGGCTGCCCCGCCGTACCCGCCGTGCGTCCCGCGCTCCCGCCCCAGCATGACAGCCCCGGCGGGTCCGCGCG
GCTCAGAGACCGAGCGGCTTCTGACCCCCAACCCCGGGTATGGGACCCAGGCGGGGCCCTTACC GGCCCCCTCCGA
CACCCCCAGAAGAGGAAGACCTTCGCCGTGCTCTCAAATACTTTTTTCATGAGTCCCTGCGACAAGTTTTCGAGCCA
AGGGCCGCAAGCCCTGCAAGCTGATGCTGCAAGTGGTCAAGATCCTGGTGGTCACGGTGCAGCTCATCCTGTTTG
GGCTCAGTAATCAGCTGGCTGTGACATTCCGGGAAGAGAACACCATCGCCTTCCGACACCTCTTCTGCTGGGCT
ACTCGGACGGAGCGGATGACACCTTCGCAGCCTACACGCGGGAGCAGCTGTACCAGGCCATCTTCCATGCTGTGG
ACCAGTACCTGGCGTTGCCTGACGTGTCACTGGGCCGGTATGCGTATGTCCGTGGTGGGGGTGACCCTTGGACCA
ATGGCTCAGGGCTTGCTCTCTGCCAGCGGTACTACCACCGAGGCCACGTGGACCCGGCCAACGACACATTTGACA
TTGATCCGATGGTGGTTACTGACTGCATCCAGGTGGATCCCCCGAGCGGCCCTCCGCCCCCAGCGACGATC
TCACCCTCTTGAAAGCAGCTCCAGTTACAAGAACCTCACGCTCAAATTCACAAGCTGGTCAATGTCACCATCC
ACTTCCGGCTGAAGACCATTAACTCCAGAGCCTCATCAATAATGAGATCCCGGACTGCTATACCTTCAGCGTCC
TGATCACGTTTGACAACAAAGCACACAGTGGGCGGATCCCCATCAGCCTGGAGACCCAGGCCACATCCAGGAGT
GTAAGCACCCAGTGCTCTTCCAGCACGGAGACAACAGCTTCCGGCTCCTGTTTGACGTGGTGGTCACTCCTCACCT
GCTCCCTGTCTTCTCTCTGCGCCCGCTCACTCCTTCGAGGCTTCTGCTGCAGAACGAGTTTGTGGGGTTCA
TGTGGCGGCAGCGGGGACGGGTATCAGCCTGTGGGAGCGGCTGGAATTTGTCAATGGCTGGTACATCCTGCTCG
TCACCAGCGATGTGCTCACCATCTCGGGCACCATCATGAAGATCGGCATCGAGGCCAAGAAGTTGGCGAGCTACG
ACGTCTGCAGCATCCTCCTGGGCACCTCGACGCTGCTGGTGTGGGTGGGCGTGATCCGCTACCTGACCTTCTTCC
ACAATAACAATATCCTCATCGCCACACTGCGGGTGGCCCTGCCAGCGTCATGCGCTTCTGCTGCTGCGTGGCTG
TCATCTACCTGGGCTACTGCTTCTGTGGCTGGATCGTGTGGGGCCCTATCATGTGAAGTTCCGCTCACTCTCCA
TGGTGTCTGAGTGCTTCTCGCTCATCAATGGGGACGACATGTTTGTGACGTTGCGCGCCATGCAGGCGCAGC
AGGGCCGCGAGCAGCCTGGTGTGGCTCTTCTCCCAGCTCTACCTTTACTCCTTCATCAGCCTCTTCATCTACATGG
TGCTCAGCCTCTTCATCGCGCTCATCACCGGCGCCTACGACACCATCAAGCATCCCGGCGGCGCAGGCGCAGAGG
AGAGCGAGCTGCAGGCCTACATCGCACAGTGCCAGGACAGCCCCACCTCCGGCAAGTTCCGCGCGGGAGCGGCT
CGGCCTGCAGCCTTCTCTGCTGCTGCGGAAGGGACCCCTCGGAGGAGCATTGCTGCTGGTGAATTGATTTCGACC
TGACTGCCGTTGGACCGTAGGCCCTGGACTGCAGAGACCCCCGCCCCGACCCCGCTTATTTATTTGTAGGGTTT
GCTTTTAAGGATCGGCTCCCTGTGCGGCCGAGGAGGGCCTGGACCTTTCGTGTCGGACCTTGGGGGCGGGGAG
ACTGGGTGGGGAGGGTGTGAATAAA

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FIGURE 2329

MTAPAGPRGSETERLLTPNPGYGTQAGPSPAPPTPPEEEDLRRRLKYFFMSPCDKFRAKGRKPCKLMLQVVKILV
VTVQLILFGLSNQLAVTFREENTIAFRHLFLLGYSDGADDTFAAYTREQLYQAIFHAVDQYLALPDVSLGRYAYV
RGGGDPWTNGSGLALCQRYYHRGHVDPANDTFDIDPMVVTDCIQVDPPERPPPPPSDDLTLLESSSSYKNLTLKF
HKLNVNTIHFRLKTINLQSLINNEIPDCYTFSVLITFDNKAHSGRIPISLETQAHIQECKHPSVFQHDNSFRLL
FDVVVILTCSLSFLLCARSLLRGFLLQNEFVGFMWRQRGRVISLWERLEFVNGWYILLVTSVDVLTISGTIMKIGI
EAKNLASYDVCSILLGTSTLLVWVGVI RYLTFFHNYNILIATLRVALPSVMRFCCCVAVIYLGYCFCGWIVLGPY
HVKFRSLSMVSECLFSLINGDDMEVTFAAMQAQQGRSSLVWLFSQLYLYSFISLFIYMVLSLFIALITGAYDTIK
HPGGAGAESESELQAYIAQCQDSPTSGKFRRGSGSACSLCCGRDPSEEHSLLVN

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FIGURE 2330

AACAGTATTTTCCTTTTCAACACATCTATTGAAAGTGTTGGATAAATGCAGGATGTTAATATGCTATAAACATAA
AGTCTGTTTTTAAAAAATAGCATTGAAAAATCATGAAGGGCTTTTTGTTTTCTTTTGTGTATATATGTTTATT
GGTAACAGGTGACACTGGAAGCAATGAACACCACAGTGATGCAAGGCTTCAACAGATCTGAGCGGTGCCCCAGAG
ACACTCGGATAGTACAGCTGGTATTCCCAGCCCTCTACACAGTGGTTTTCTTGACCGGCATCCTGCTGAATACTT
TGGCTCTGTGGGTGTTTGTTCACATCCCCAGCTCCTCCACCTTCATCATCTACCTCAAAAACACTTTGGTGGCCG
ACTTGATAATGACACTCATGCTTCCTTTCAAATCCTCTCTGACTCACACCTGGCACCCTGGCAGCTCAGAGCTT
TTGTGTGTCGTTTTCTTCGGTGATATTTTATGAGACCATGTATGTGGGCATCGTGCTGTTAGGGCTCATAGCCT
TTGACAGATTCTCAAGATCATCAGACCTTTGAGAAATATTTTTCTAAAAAACCTGTTTTTGCAAAAACGGTCT
CAATCTTCATCTGGTTCTTTTTGTTCTTCATCTCCCTGCCAAATATGATCTTGAGCAACAAGGAAGCAACACCAT
CGTCTGTGAAAAAGTGTGCTTCCTTAAAGGGGCTCTGGGGCTGAAATGGCATCAAATGGTAAATAACATATGCC
AGTTTATTTTCTGGACTGTTTTATCCTAATGCTTGTGTTTTATGTGGTTATTGCAAAAAAGTATATGATTCTT
ATAGAAAGTCCAAAAGTAAGGACAGAAAAACAACAAAAGCTGGAAGGCAGTATTTGTTGTCGTGGCTGTCT
TCTTTGTGTGTTTTGCTCCATTTCAATTTGCCAGAGTTCCATATACTCACAGTCAAACCAACAATAAGACTGACT
GTAGACTGCAAAATCAACTGTTTATTGCTAAAGAAACAACCTCTTTTTTGGCAGCAACTAACATTTGTATGGATC
CCTTAATATACATATTCTTATGTAAAAAATTCACAGAAAAGCTACCATGTATGCAAGGGAGAAAGACCACAGCAT
CAAGCCAAGAAAATCATAGCAGTCAGACAGACAACATAACCTTAGGCCTGACAACTGTACATAGGGTTAACTTCTA
TTTATTGATGAGACTTCCGTAGATAATGTGGAATCAAATTTAACCAAGAAAAAAGATTGGAACAAATGCTCTC
TTACATTTTATTATCCTGGTGACAGAAAAGATTATATAAAATTTAAATCCACATAGATCTATTCTAAGCTGAA
TGAACCATTACTAAGAGAATGCAACAGGATACAAATGGCCACTAGAGGTCATTATTTCTTTCTTTCTTTTTTTT
TTTTTAATTTCAAGAGCATTTCACTTTAAACATTTTGGAAAAGACTAAGGAGAAACGTATATCCCTACAAACCTCC
CCTCCAACACCTTCTCACATTCTTTTCCACAATTCACATAACACTACTGCTTTTTGTGCCCTTAAATGTAGATA
TGTGCTGAAAGAAAAAAGAACGCCAACTCTTGAAGTCCATTGCTGAAAACCTGCAGCCAGGGGTTGAAAGGGAT
GCAGACTTGAAGAGTCTGAGGAACCTGAAGTGGGTGAGCAAGACCTCTGAAATCCTGGGTAAAGGATTTTCTCCTT
ACAATTACAAACAGCCTCTTTCACATTACAATAATATACCATAGGAGGCACAAGCACCATTATTAAGCCACTTTG
CTTACACCTTAAGTGTGTACAATTCAAGTGTGAGAATGCTGTGTTAACTATTCTTTGGAATTCTCCTTCTGTCCA
GCAAATACTCTAATGATGGTTAAACATGGCACCTACTCAGCAATGCCTTCCTGGACCACAACCCCTATCCCCCTG
CCCCACCCTCCTCATTAACAAATACTTCTACTGTTTGGGTGTGTGATAGGGTTCTCAATGCAGATCTCCCTT
TTCTAGTTAGCTATATTCTTGACTGCATCCGCTAAAAATGTTAAAGCTTCTTGAGAGACAGACATGCCAGATTTT
CTTGGTATCTCCCATAAATACGACCTACAGTCCATGGTCTACAGATGTTTTAAATAGAATTGCTATTCTCGATACA
TACAAAGACGTAATTGCTGACCCACAATCAGTAACATCCATATTGGGAGATTTTTCAAAGGATGGTGACCCTGCT
TGTATTTATTTACCTTGGTATTTTTCTTGATCCTTCTGTGATTCAAAAAGTAAAATGTGGCTTTCTGAAATG
ATGGATAAGAGTCTACATCTTCTAGAAAAATACATAAAGGAGTAGTTAAGCTCTGTAAATGTGCCACGAGCTCC
AACACGACCATCGTAGGGTGAAGCCACGTTTTCTTCCATGGCCTCAAAGGCCCTAGAAGTGGCCTACCTTTCTG
GCCTTACCTCCTAGCTACTTATCCATCTCTTGAACCTTTATACTCTTGTATAAATTTCTAACCTTCAGAAAATGCC
ATACTCTGTTTTGGCACCACACATGTATATTTCCCCCTGGTACACTTGGGAAGACTCTTATCCATCTGTGAAACCC
TATGTTGTCATCACTTGGTCCATGAAATATTACCTGGCCAATATCCCACCATCACCTCAAACCCAATCACCCCT
CCTCTGTATGCTGTCACACCTATATTATTAACCTTATCACATTGCATTGTAATTACTTCTGACCTTTGTATCTA
CTCTTTTAGTAACCTGATGTATATATCTGAAAGGAGAGATTGTTTCATTGTGCAATCAATAAATGTTTGATAAAAT
AAAGCCC

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FIGURE 2331

MNTTVMQGFNRSERCPRDTRIVQLVFPALYTVVFLTGILLNTLALWVFVHIPSSSTFIIYLKNTLVADLIMTLML
PFKILSDSHLAPWQLRAFVCRFSSVIFYETMYVGIVLLGLIAFDRFLKIIIRPLRNIFLKKPVFAKTVSIFIWFFL
FFISLPNMILSNKEATPSSVKKCASLKGPLGLKWHQMVNNICQFIFWTVFILMLVFYVVIAKKVYDSYRKS SKD
RKNNKKLEGKVFVVAVFFVCFAPFHFARVPYTHSQTNNKTD CRLQNQLFIAKETTLFLAATNICMDPLIYIFLC
KKFTEKLPCMQRKTTASSQENHSSQTDNITLG

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FIGURE 2332

GTGCGGGGTCAAGCTCTCCGCCTTGATGGTGGCCACTGGGCGGGCGCGTGGAGCCCGGGCGGGCTGGGCAGCAGCC
GCCGCCGCCGCTGCGAGTCAACGTGGTGCTCAGCGGCCTCCTCGGCAAGTTGTTTCCAGGCCAGCGCGAGCGTC
GCAACTCCGGCACGAGGGCAACCGACTGTACCGCGAGCGCCAGGTGGAGGCGGCACTGCTCAAGTACAACGAGGC
AGTTAAGTTGGCTCCAAATGACCACTTGCTTTATAGCAATCGGTCTCAGATTTATTTACCTTGGAGTCTCATGA
GAATGCACTGCATGATGCAGAAATAGCATGTAAGCTCCGCCCCGATGGGTTTTAAGGACAATCTGGAGCTCCCACA
TTGTTCTAGTCAGGAGGAAGCAGCAGCCAGGGGAGATGGCAGCAGTCTGATGGACCCAGCTAAAGTGAAGGGGGA
TGGTCAGCAGCACCACATGAAAGACCAGGAAGAAGAGGAGGAGAAGTGGGATGCTACCTCTCCAAAAGCTGCTTC
CAGCAAGACTGGAAAAATGCCAGGAAAAGAAAAGGAAACATTGCCAGATTGAATCCCAAGAAGAAACGGGGATGCC
TAATAAAGCCTCCAAGCAAGATCCTCCCACTGATCAGGGGGACAAACCTGCTCTCAGTTTACCACCTGTCATCTTT
CGACGCATCTGACCTTGAATGCGCTCTATGTATGAGATTATTCTATGAGCCAGTCACAACACCTTGGGGGCATAC
TTTTTGCTTAAAAATGCCTAGAAAGATGCCTAGATCACAACGCAAAGTGTCCATTGTGCAAAGACGGTCTTTTACA
GTGCTTGGCATCAAGAAAATACAGCAAAAATGTAATAATGGAGGAGCTCATAGCTAAATTCCTTCCAGAAGAACT
GAAGGAACGAAGGAAGCTTTATGAAGAGGAAATGGAAGAACTTTCTAACCTTAATAAGAATGTGCCTATTTTCGT
GTGTACTATGGCCTATCCCACCGTTCCCTGTCCCTGCACATCTTTGAGCCTTGTTACCGCCTGATGATTCTGTAG
ATGCATTGAGACAGGCACGAGACAGTTTGGCATGTGCCTTGGAGATCCTGTCAAAGGGTTTGAGAATATGGCTG
CATCCTAGAGATCAGAAATGTTCAATTCTTTGCTGATGGCCGCTCAGTGGTTGACAGCATAGGCAAGAGGCGCTT
CAGGGTGCTCCATCAGAGCCAGCGGGATGGCTACAACACAGCCGACATTGAATACATTGAAGACCAAAGGTTCA
GGGAGAGGATTGTGCTGAGCTCATGGGATTACATAACTGTGTCTATCAGCAAGCGTCATTGTGGTTTCATTCTGCT
CAAATTATCCCTAAAGAATCGGATACTCAATCACTTTGGTCCCATGCCGGAGAAAGACGCCGATCCTCAGATGAA
CCCGAATGGCCCAGCCTGGTGCTGGTGGATGTTAGCAGTTCTTCCCTTGGAAAGCCGAGCTCAGCTCCCTTCTCT
AGCAATGAGGTCCTTAAAGGACAGACTGAATGGTATTCGACGAGTCCTGGCCTTCATATCCCGAAACCAAACTA
GTGAGTGGATTGCCGAAGAGGAGCTCCACCTTCCCCACTGCCGTCGGGGGGAGTCTTCTTGTAATATATCTAA
TTGCAATAACATCTTAACAGAAGGGGGTGTCAAACAGAGGCATCAGCCTGCTGTTGATCACAGAGAGAAATTGAG
TAGAAAGACCAAAGAATGTGACCTATTTGAACTTTCTGTCTTAAGATGCTTCTTGACATGCTGCATAACTACA
TAAACAGCAGAGGTGTTTAAGAGCCAGAAAAACATAATTTGATTTTAACATTAAAATTTCCAAAAGTTTAAAAA
AAAAAAAAAAAAAAAA

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FIGURE 2333

MVATGRARGARRAGQQPPPLRVNVVLSGLLGKLFPGPARASQLRHEGNRLYRERQVEAALLKYNEAVKLAPNDH
LLYSNRSQIYFTTLESHENALHDAEIAACKLRPMGFKDNLELPHCSSQEEAAAARGDGSSLMDBAKVKGDDGQHHMKD
QEEEEEEKWDATSPKAASSKTGKCQEKKRKHCQIESQEETGMPNKAASKQDPPTDQGDKPALSPLASFDASDLECA
LCMRIFYEPVTTPCGHTFCLKCLERCLDHNAKCPLCKDGLSQCLASRKYSKNVIMEELIAKFLPEELKERRKLYE
EEMEELSNLNKNVPIFVCTMAYPTVPCPLHIFEPYRLMIRRCIETGTRQFGMCLGDEPVKGFAEYGCILEIRNVQ
FFADGRSVVDSIGKRRFRVLHQSQRDGYNTADIEYIEDQKVQGEDCAELMGLHNCVYQQASLWFHSLKLSLKNRI
LNHFPGMPEKDADPQMNPNGPAWCWWMLAVLPLESRAQLPFLAMRSLKDRLNGIRRVLAFLSRNQ

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FIGURE 2334A

GACAGACAGGATGGACTTCCTCCGGCTATACCTCCCTGGGCTGCACCAGGCCTTGAGGGGGGCACTGGATTCCCT
CGGCACCTTTGTCTCCTACCTCCTGGGAGATGCAGTCCCCACTGTAGAGCGGGAGGCGCAGGCGGCTGAGGAACT
GGGGGTGGTGGCGGTGGGAAAGACAGGGAAGATTGTAGAGGAGGAAGCCCAGGAGGACCTGGAGGGCCTTAGAGG
CAGCCAAAACGAGGGGGCTGGAAGGCTGAGAGGGCCTGGAGATGACAGAAGACATGAAGTGGGGAGCTCAGCTGT
AGAACAGACCTGGGGCTGGGGAGATGGCAGCTCCCATGGGTCCCAAGCAGAGAGGCAGGACAGTGGGGCTGGGGA
GACAGCCAAGGCTGCCAGGTGCCAGGAGCCAAGCGCCCACTTGAGAGGCCAGAAAGAAATCCAAGGCAGGGTCTGG
GGCTTGCCAAGACAGGAGCGGCCAAGCCAGGAGAGGCAGGAGTCCCATGAGCAGGAAGTGAACAGAGAAGAGAG
GCTGAGAAGCTGGGAACAGGAGGAGGAGGAGGAAGAGGTGAGGGCAAGAGAGCCAGGGATGGCCAGAGGGGCGGA
GTCAGAGTGGACCTGGCATGGGGAGACGGAGGGGAAGGCTGGTGTCTGTTGGGCCAAAGGCGGCAGGGGACAACCG
GGAGATGGAGCAGGGGGTCAGGGAGGCAGATGCAGGGGAACTGAGGAGCCTGGGGCCGAAGGGGCTGGGAAAGG
AGAAGAGGTGGTAGTGGTGGAGAAGGCCTGTGAAAGCACTAGGGCATGGGGACGTGGGGCCCAGGGGCAGAGCC
TGAGGACTGGGGAATCTTAGGCAGAGAGGAGGCCAGGACAACCCCAAGGTAGGGAAGAGGCCAGGGCAATTTTAGA
TGGGGAGGAAGCCAGGACAATCTCAGGCGGGGAGGAGGCTGAGACAGCCTCAGGCGGGGAGGAGGCTGAAACAGC
CTCAGGCGGGGAGGAGGCCGGGACAGCCTCGGGAGGGGAGGAGGCCGGGATATCCTCAGGCGGGGAGGCTGGGAC
AGCCTCAGGAGGGGAGGAGGCCGGGACAGCCTCAGGAGGGGACGAGGCCTGGACAACCTCAGGCAAAGAGGAGGC
TGACCTGCTGGGAGTCAGACAGACTCAATATGGAGCAGTTCAGGAGAAAGGCTCCTAGAGGCTACTGGAAAAGT
CTGGGTCTTAGAGGAGGAGGGGGATGAGGAGAGAGAGGCTGAGGTGAGCCCTTTCCCCAAACAGGCCCAGGTCTCT
GGGCACTGAAAGAACAGAAGAGGCTGCTGAGAGCCAGACCGCAGGGAGGGAAGCTGTGGGAGGCCAGGAGGCAGG
GGAGAGCTTTGAGGGCCAGGTAGACCTGCGTGGTAAGGAGGCTGAGATGAGGCAGGACTTGGGGATCAGGGCCGA
CCGGGCCAGGATGGAAGAGCTGGTACAGGCAGAGGAGGCCCAGGAGGAGAGAGGGAGCAGCAGGGATCCAGTGGC
TGAGCTGCCCTCAGATGGAGAGGCTGAAGGCACTGCCCACTTGGAGGCAACTCCAGAGGCCAGGCCTGAGGAGGA
GCTCACAGGGGAGGAGAGTGAGGCGGCCCAGACTAGCTGTGGCCTACTGGGCGTGGAATGGGGTGGCCTCACACA
CAGCGTCACCAAAGGCCAGGGACCTGAGCTGATGGGGGTGCCAGACCCCCAACTAAGCAACCCGAGGAAAGGGA
GGCAGGGGAGGTGGAGCTCATGGGAGTTCTGGCCCTGAGCAAAGAGGAGCAGGAGAGGAGCCTGGAGGCAGGTCC
CAGGCACGCGGGGTCTGTAAAGCCTGAGGCCTCCGAGGCCTTCCAGGAGCCTGGGAAAACCGCACGAGAAAGGA
CATGGAGAGAGGAAATACTCAGGAGGATGCGGCCGATGGCGAGCAGCGGGAGGAGGAGGAGACTGCGGGAGGCCA
GACCCTGGCGGCTGAGGCTGAAGGAGACCGAGAGTCTGAACATCAGAAGTCCCAGAGGCAGGCGGGGAGGGGCT
GACAACCCAGGACGCGGGATGTGGAAGTGAAGGAGGAGAGGCATCTGTCTCAGAGAACCAGGAGCTGGACGGAAG
CACAGGGGCAGACGCGGGCCTTGCCCGTCACTGGGAGAGGCCTATGCCAGAGAACTGAGGATGAGGAGGCGGA
GGCTGACAGAACATCCAGAAGAGGCTGGAGGCTGCAAGCGGTGGCTGTGGGCTCCCGGACCGTGAGGATGCACA
GACTGGCTCTGTGGCTGCTGGGATTATGGGGGTGATGTGGTCCCACACATCAGCGCTGCTGGCGCTGGTGAAGC
TTTGGAAGGGGCGCTTGGGCAAGGCTGGGACTCGAAAGAAAAGGAAGAGGCAGCAGCAGGAGAGCATGCAGGTGG
GCAAGAATTTGGTCTGGAGGGCTCAGCAGAGGAAGAGGTGACTGGCAGAGGCAGCCAAGTAGAGGCTTTTGAGTC
CAGGGAGGGAGGACCTTGGGGAGGGCGGCTAGAGGCCGAGGAATCTGCAGGCGCAGAGGACAGCTGTGGGCTGGA
TCCCGCGGGCTCCCAGACAGCGAGGGCAGAGGGGATGGGAGCCATGGTGGAGGCTGGGGGGCTTCTAGAAAAGTG
GACGCTGTTGGAAGAAGAGGCTGTTGGATGGCAGGAGAGAGAACAGAGGGGAAGACAGTGAGGGGCGGTGTGGGGA
CTACCACCTGAGGGGAGAGGCACCAAGGCTCCTTGATGCAGAGGGTCTCATGGTGACCGGGGGCCGGAGGGCAGA
GGCCAAGGAGACTGAGCCAGAAAGCCTGGAACATGTCAGGGGCCAGGAGGAGCAGCCAACACACCAGGCCCCCTGC
AGAAGCTGCGCCCGAGTCAGTCGGGGAAGCCGAGACGGCTGAGGCCATGGGCAGTGCCAGAGGAGGTGCTGCCAA
CAGCTGGAGCGAGGCCCCGCTCCCCGGGTCCCTCCTAGACGTCTCTGTCCCAAGGAGTCGCGTGCACCTCTCGAG
AAGCTCCTCACAGCGTCTGCTCCCGGCCCTCTTTTCGTGCGACTCCGGCTGGGAGCAGCAGGAGGAGCCCCCAGC
CCCCAACCTCCTGAGGAGGAGCTGTCAGCTCCTGAGCAGAGACCCCTCCAGCTGGAGGAACCCCTGGAGCCAAG
CCCTCTGAGGCATGATGGGACCCCGGTGCCAGCCAGGAGAAGGCCCTGGGACACGGGTTTGGCCTCGCGCACCC
TGGCATGATGCAGGAGCTGCAAGCCGCTCTGGGCCGGCCTAAGCCCCAGTGACTGAGACCCGGTGCTCTGGGAGC
CAGGCCCTGAGTGGGTGCCAGAAGGCTTGCTCCAATGCCACTGAGCCCTGCTCCCTCTGCCACTGTGGACACATC
CTCTCCACCTCTGGGCCTCAGTGTCTTGATGTATCATTCATGGAGCAGGCAAAACCAGACGTCTGGGAATACCG
TGAACCTAAGGAGTCTGATTCTCCGACACAGGCTGGTGGACCACCTACCCCACTGAGACCACCTCTCAGGGTGCC
TGCCCTGGTTCCTCCCCAGCCTGAGTCAGCTGTCTGGACTGCAAGGAGGCTGGGCACGGGGGCTCACGCCTGTCA

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FIGURE 2334B

CCCCAGAGCTTTGGGAGGCCAAGGTGGGAGGATCGCTTGAGACCAGGAGTTCGAGACCAGCCTGGGCAGCATAGC
AAGATCCCCATCTTTTAAAAACAAAATAAAACAATAAAGACTGCAAGGAAAAAAAAAAAAAAAAAAAAA

MDFLRLYLPGLHQALRGALDSLGTFSYLLGDVPTVEREAQAAEELGVVAVGKTGKIVEEEAQEDLEGLRGSQN
EGAGRLRGPDDRRHEVGSSAVEQTWGWDGSSSHGSQAERQDSGAGETAKAARCQEPSAHLEARKKSKAGSGACQ
DRSGQAQERQESHEQEVRNREERLSWEQEEEEEEVRAREPGMARGAESEWTHWGETEGKAGAVGPKAAGDNREME
QGVREADAGETEPEGAEGAGKGEEVVVEKACESTRAWGTWGPGAEPEDWGILGREEARTTPGREEARAILDCEE
ARTISGGEEAETASGGEEAETASGGEEAGTASGGEEAGISSGGEAGTASGGEEAGTASGGDEAWTTSGKEEADLL
GVRQTQYGAVPGERLLEATGKVVVLEEEGDEEREAEVSPFPKQAQVLGTERTEEAESQTAGREAVGGQEAGESF
EGQVDLRGKEAEMRQDLGIRADRARMEELVQAAEAQEERGSSRDPVAELPSDGEAEGTADLEATPEARPEEELTG
EESEAAQTS CGLLGV EWGGLTHSVTKGQGP ELMGGAQTPTKQPEEREAGEVELMGVLALSKEEQERSLEAGPRHA
GSVKPEASEAFP GAWENRTRKDMERGNTQEDAADGEQREEEETAGGQTLAAEAEGDRESELSEVPEAGGEGLTQT
DAGCGTEEGEASVSENQELDGSTGADAGPCPSLGEAYARETEDEEAEADRTSRRGWRLQAVAVGLPDREDAQTGS
VAAGIMGGDVVPHISAAGAGEALEGALGQGWDSKEKEEAAAGEHAGGQEFGLGESAEEVETGRGSQVEAFESREG
GPWGG RVEAEESAGAEDSCGLDPAGSQ TARAEGMGAMVEAGGLLEKWTLL EEEAVGWQEREQREDSEGRCDYHP
EGEAPRL LDAEGLMVTGGRRAEAKETEPESLEHVRGQEEQPTHQAPAEAPESVGEAETA EAMGSARGGAANSWS
EAPLPGSLLDVSVPRSRVHLSRSSSQRRSRPSFRRTPAWEQQEPPAPNPPEELSAP EQRPLQLEEPLEPSPLR
HDGTPVPARRRPLGHGFGLAHPGMMQELQARLGRPKPQ

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FIGURE 2336

GCCTGTCGCAGGCGTGACAGGGACCTGGACTCCGCCTCGTCCCCGGGGCTCGGGCAGCCGAGCC**ATG**CGGGGAAC
TGTGGGGCCCGCGGGCGCGCTGTTCGGCGCACACGCTGCTGTTTCGACCTGCCGCCCCGCGCTGCTCGGAGAGCTCTGC
GCTGTTCTGGACAGCTGCGACGGCGCGCTGGGCTGGCGCGGCCTGGCAGAGAGACTTTTCAAGCAGCTGGCTGGAT
GTTCTGTCATATTGAAAAGTATGTAGACCAAGGTAAAAGTGGAACAAGAGAATTACTTTTGGTCTTGGGCACAGAAA
AACAGACCATCGGTGACCTTTTACAGGTCTCCAGGAGATGGGACATCGTTCGAGCTATTCATTTAATTACAAAC
TATGGAGCAGTGTGAGTCCCTTCAGAGAAGAGTTATCAGGAAGGTGGATTTCCAAATATATTATTCAAGGAAACA
GCCAATGTCACCGTGGATAATGTTCTTATTCTGAACATAATGAAAAAGGAGTACTGCTTAAATCTTCCATCAGC
TTTCAAAATATCATAGAAGGAACTAGAAATTTCCACAAAGACTTCCTAATTGGAGAAGGAGAGATTTTTGAGGTA
TACAGAGTGGAGATTCAAAACCTAACATATGCTGTCAAATTATTTAAACAGGAGAAAAAAATGCAGTGTAAGAAG
CATTGGAAGAGGTTTTTATCTGAGCTTGAAGTTTTACTACTGTTTCATCACCCAAACATACTAGAGTTGGCTGCA
TATTTTACAGAGACTGAGAAGTTCTGTCTGATTTATCCATACATGAGAAATGGAACACTTTTTGACAGATTGCAG
TGTGTAGGTGACACGGCCCCACTCCCTTGGCACATTTCGAATCGGTATATTAATAGGAATATCCAAAGCCATTTCAC
TACCTGCACAACGTTCAACCATGCTCGGTTCATCTGTGGCAGTATATCAAGTGCAAACATCCTTTTGGATGATCAG
TTTCAACCCAAACTAAGTATTTTGGCATGGCACACTTCCGGTCCCACCTAGAACATCAGAGTTGTACCATAAAT
ATGACCAGCAGCAGCAGTAAACATCTGTGGTACATGCCAGAAGAGTACATCAGACAGGGGAAACTTTCCATTAAA
ACAGATGTCTACAGCTTTGGAATTGTAATAATGGAAGTTCTAACAGGATGTAGAGTAGTGTAGATGATCCAAAA
CATATCCAGCTGCGGGATCTCCTTAGAGAATTGATGGAGAAGAGAGGCCTGGATTCATGTCTCTCATTTCTAGAT
AAGAAAGTGCCTCCCTGCCCTCGGAATTTCTCTGCCAAGCTCTTCTGTTTGGCAGGCCGGTGTGCTGCAACGCGG
GCAAAGTTAAGACCATCAATGGATGAAGTTTTAAATACTCTTGAAAGTACTCAAGCCAGCTTGTATTTTGCTGAA
GATCCTCCACATCACTAAAGTCCCTCAGGTGTCCTTCTCCTCTATTCTGGAGAATGTACCAAGTATTCCAGTG
GAAGATGATGAAAGCCAGAATAACAATTTACTACCTTCTGATGAAGGCCTGAGGATAGACAGAATGACTCAGAAA
ACTCCTTTTGAATGCAGCCAGTCTGAGGTTATGTTTCTGAGCTTGGACAAAAAGCCAGAGAGCAAGAGAAATGAG
GAAGCTTGCAACATGCCCAGTTCTTCTTGTGAAGAAAGTTGGTTCCCAAAGTATATAGTTCCATCCCAGGACTTA
AGGCCCTATAAGGTAAATATAGATCCTTCTTCAGAAGCTCCAGGGCATTCTTGCAGGAGCAGGCCAGTGGAGAGC
AGCTGTTCTCCTCAAATTTTCTTGGGATGAATATGAACAGTACAAAAAAGAA**TAAA**ATTCTACCAGAAGATAAAGAA
AAAAGCAAGTATTGCATAGGCACCTGAGCATAGGTATGACCTTGGGAAGACATTGGCTCCATAAGCAATGCCAAG
AGAATGATCAATAGTGAGTTTGGGTGATGCAGATAAACAATCTGGATAATTCCATTTCTTTTTTCCCAAACCCTC
AAACAGAGTGCCTTAAAAAATTGTTTTATCAGGATAATTGTCTCATGACCAAATCCACGCTCAATTAGAGCCATT
CAAAATTCCTTAAGATCATGGGTCTGACTTCAGCCAAACAAAACAATCAAAACCTACCAAAAAGGGACTGGATT
GTAATGTCCTCTCCATCATCCTCAGTGTGAGTCTCAGAGCCTCCATCTGCCAAGAACATTTCAGTTGGATTCCAT
CGTTTGGTTTTAGCTTGCTTGACAGGGTTGTAGGAAATG

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FIGURE 2337

MAGNCGARGALSAHTLLFDLPPALLGELCAVLDS CDGALGWRGLAERLSSSWLDVRHIEKYVDQKSGTRELLWS
WAQKNKTIGDLLQVLQEMGHRRRAIHLITNYGAVLSPSEKSYQEGGFPNILFKETANVTVDNVLIPHNKGVLLK
SSISFQNIIEGTRNFHKDFLIGEGEIFEVYRVEIQNLTYAVKLFKQEKMQCKKHWKRFLSELEVLLLFHHPNIL
ELAAYFTETEFCLIPYMRNGTLFDRLQCVGDTAPLPWHIRIGILIGISKAIHYLHNVQPCSVICGSISSANIL
LDDQFQPKLTDFAMAHFRSHLEHQSC TINMTSSSSKHLWYMPEEYIRQGKLSIKTDVYSFGIVIMEVLTGCRVVL
DDPKHIQLRDLLRELMEKRGLDSCLSFLDKKVPPCPRNFS AKLFCLAGRCAATRAKLRPSMDEVLTLESTQASL
YFAEDPPTSLKSFRCPSPLFLENVPSIPVEDDESQNNNLLPSDEGLRIDRMTQKTPFECSQSEVMFLSLDKKPES
KRNEEACNMPSSSCEESWFPKYIVPSQDLRPYKVNIDPSSEAPGHSCSRPVESSCSSKFSWDEYEQYKKE

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FIGURE 2338

CAGTCTTGTTTCGGGTTCCGGCTGCGTTGGGCTTGCGTGCGGCTCGCTAAGACT**ATG**GCGTCCGGGCCTCATTTCG
ACAGCTACTGCTGCCGCAGCCGCCTCATCGGCCGCCCAAGCGCGGGCGGCTCCAGCTCCGGGACGACGACCACG
ACGACGACCACGACGGGAGGGATCCTGATCGGCGATCGCCTGTACTCGGAAGTTTCACTTACCATCGACCACTCT
CTGATTCCGGAGGAGAGGCTCTCGCCACCCCATCCATGCAGGATGGGCTCGACCTGCCAGTGAGACGGACTTA
CGCATCCTGGGCTGCGAGCTCATCCAGGCCGCCGGCATTCTCCTCCGGCTGCCGAGGTGGCGATGGCAACGGGG
CAGGTGTTGTTTCATCGTTTTTTTCTACTCCAAATCTTTCGTCAAACACAGTTTTCGAGATTGTTGCTATGGCTTGT
ATTAATCTTGATCAAAAATCGAAGAAGCACCTAGAGAATAAGAGATGTGATTAATGTATTCCACCACCTCCGC
CAGTTAAGAGGAAAAAGGACTCCAAGCCCCCTGATCCTTGATCAGAACTACATTAACACCAAAAAATCAAGTTATC
AAAGCAGAGAGGAGGGTGCTAAAGGAGTTGGGATTTTGTGTTTCATGTCAAGCATCCTCATAAGATCATTGTTATG
TATTTACAAGTCTTAGAATGTGAACGTAATCAAACCTGGTTCAAACCTGCCTGGAATTACATGAATGACAGTCTT
CGAACCAATGTGTTTGTTCGATTTCAACCAGAGACTATAGCATGTGCTTGATCTACCTTGACGCTAGAGCACTT
CAGATTCCGTTGCCAACTCGTCCCCATTGGTTTCTTCTTTTTTGGTACTACAGAAGAGGAAATCCAGGAAATCTGC
ATAGAAACACTTAGGCTTTATACCAGAAAAAGCCAAACTATGAATTACTGGAAAAAGAGTAGAAAAAGAAAA
GTAGCCTTACAAGAAGCCAAATTAAAAGCAAAGGGATTGAATCCGGATGGAATCCAGCCCTTTCAACCCTGGGT
GGATTTTCTCCAGCCTCCAAGCCATCATCACCAAGAGAAGTAAAAGCTGAAGAGAAATCACCAATCTCCATTAAT
GTGAAGACAGTCAAAAAAGAACCTGAGGATAGACAACAGGCTTCCAAAAGCCCTTACAATGGTGTAAGAAAAGAC
AGCAAGAGAAGTAGAAATAGCAGAAGTGCAAGTCGATCGAGGTCAAGAACACGATCACGTTCTAGATCACATACT
CCAAGAAGACACTATAATAATAGGCGGAGTCGATCTGGAACATACAGCTCGAGATCAAGAAGCAGGTCCCGCAGT
CACAGTGAAAGCCCTCGAAGACATCATAATCATGGTTCTCCTCACCTTAAGGCCAAGCATAACCAGAGATGATTTA
AAAAGTTCAAACAGACATGGTCATAAAAGGAAAAAATCTCGTTCTCGATCTCAGAGCAAGTCTCGGGATCACTCA
GATGCAGCCAAGAAACACAGGCATGAAAGGGGACATCATAGGGACAGGCGTGAACGATCTCGCTCCTTTGAGAGG
TCCCATAAAAGCAAGCACCATGGTGGCAGTCGCTCAGGACATGGCAGGCACAGGCGCT**GA**CTTTGTCTTCCTTTG
AGCCTGCATCAGTTCTTGGTTTTGCCTATCTACCAGTGTGATGTATGGAATCAATCAAAAACATTAAACGCAAAA
CTGATTAGGATTTGATTTCTTGAAACCTCTAGGTCTCTAGAACACTGAGGACAGTTTCTTTTGAAAAAGAACTAT
GTTAATTTTTTTTGACATTAAATGCCCTAGCAGTATCTAATTAATAAACCATGGTCAGGTTCAATTGTACTTTAT
TATAGTTGTGTATTGTTTATTGCTATAAGAACTGGAGCGTGAATTCTGTAAAAATGTATCTTATTTTTATACAGA
TAAAAATTGCAGACACTGTTCTATTTAAGTGGTTATTTGTTTAAATGATGGTGAATACTTTCTTAACACTGGTTTG
TCTGCATGTGTAAAGATTTTTTACAAGGAAATAAAAATACAAATCTTGTTTTT

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FIGURE 2339

MASGPHSTATAAAAASSAAPSAGGSSSGTTTTTTTTTGGILIGDRLYSEVSLTIDHSLIPEERLSPTPSMQDGLD
LPSETDLRILGCELIQAAGILLRLPQVAMATGQVLFHRFFYSKSFVKHSFEIVAMACINLASKIEEAPRRIRDVI
NVFHHLRQLRGKRTPSPLILDQNYINTKNQVIKAERRVLKELGFCVHVKHPHKIIVMYLQVLECERNQTLVQTAW
NYMNDSLRTNVFVRFQPETIACACIYLAARALQIPLPTRPHWFLLFGTTEEEIQEICIETLRLYTRKKPNYELLE
KEVEKRKVALQEAKLKAKGLNPDGTPALSTLGGFSPASKPSSPREVKAEKSPISINVKTVKKEPEDRQQASKSP
YNGVRKDSKRSRNSRSASRSRSTRSRSRSHTPRRHYNNRRSRSGTYSSRSRSTRSRSHSESPRRHHNHGSPHLKA
KHTRDDLKSSNRHGHKRKKSRSRSQSKSRDHSDAAKKHRHERGHHDRRRERSRSFERSHKSKHHGGSRSRSGHGRHR
R

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FIGURE 2340A

GTAGACAGATCCAGGCTCACCAGTCCTGTGCCACTGGGCTTTTGGCGTTCTGCACAAGGCCTACCCGCAGATGCC
ATGCCTGCTCCCCCAGCCTAATGGGCTTTGATCGGGGAAGAGGGTGGTTCAGCCTCTCACGATGAGGAGGAAAGA
GCAAGTGTCTCTCGGACATTCTCCGGGTTGTGAAATGTGCTCGCAGGAGGCTTTTCAGGCACAGAGGAGCCAG
CTGGTCGAGCTGCTGGTCTCAGGGTCCCTGGAAGGCTTCGAGAGTGTCTGGACTGGCTGCTGTCTCTGGGAGGTC
CTCTCTGGGAGGACTACGAGGGCTTCCACCTCCTGGGCCAGCCTCTCTCCCACTTGGCCAGGCGCCTTCTGGAC
ACCGTCTGGAATAAGGGTACTTGGGCTGTGAGAAGCTCATCGCGGCTGCCAAGAAGCCCAGGCCGACAGCCAG
TCCCCAAGCTGCATGGCTGCTGGGACCCCCACTCGCTCCACCCAGCCCCGAGACCTGCAGAGTCACCGGCCAGCC
ATTGTCAGGAGGCTCCACAGCCATGTGGAGAACATGCTGGACCTGGCATGGGAGCGGGGTTTCGTGAGCCAGTAT
GAATGTGATGAAATCAGGTTGCCGATCTTCACACCGTCCCAGAGGGCAAGAAGGCTGCTTGATCTTGCCACGGTG
AAAGCGAATGGATTGGCTGCCTTCTTCTACAACATGTTTCAGGAATTACCAGTCCCATTGGCCCTGCCTTTGGAA
GCTGCCACATGCAAGAAGTATATGGCCAAGCTGAGGACCACGGTGTCTGCTCAGTCTCGCTTCTCAGTACCTAT
GATGGAGCAGAGACGCTCTGCCTGGAGGACATATACACAGAGAATGTCTGGAGGTCTGGGCAGATGTGGGCATG
GCTGGACCCCCGAGAAGAGCCCAGCCACCCTGGGCTGGAGGAGCTCTTCAGCACCCCTGGCCACCTCAATGAC
GATGCGGACACTGTGCTGGTGGTGGGTGAGGCGGGCAGTGGCAAGAGCACGCTCCTGCAGCGGCTGCACCTTGCTG
TGGGCTGCAGGGCAAGACTTCCAGGAATTTCTCTTTGTCTTCCCATTCAGCTGCCGGCAGCTGCAGTGCATGGCC
AAACCACTCTCTGTGCGGACTCTACTCTTTGAGCACTGCTGTTGGCTGATGTTGGTCAAGAAGACATCTTCCAG
TTACTCCTTGACCACCCTGACCGTGTCTGTAACTTTGATGGCTTTGACGAGTTCAAGTTTCAGGTTACCGGAT
CGTGAACGCCACTGCTCCCCGACCGACCCACCTCTGTCCAGACCCTGCTCTTCAACCTTCTGCAGGGCAACCTG
CTGAAGAATGCCCGCAAGGTGGTGACCAGCCGTCCGGCCGCTGTGTGCGCGTTTCTCAGGAAGTACATCCGCACC
GAGTTCAACCTCAAGGGCTTCTCTGAACAGGGCATCGAGCTGTACCTGAGGAAGCGCCATCATGAGCCCGGGGTG
GCGGACCGCTCATCCGCTGCTCCAAGAGACCTCAGCCCTGCACGGTTTGTGCCACCTGCCTGTCTTCTCATGG
ATGGTGTCCAAATGCCACCAGGAAGTGTGCTGCAGGAGGGGGGGTCCCCAAAGACCACTACAGATATGTACCTG
CTGATTCTGCAGCATTTTCTGCTGCATGCCACCCCCCAGACTCAGCTTCCCAAGGTCTGGGACCCAGTCTTCTT
CGGGGCCGCTCCCCACCCTCCTGCACCTGGGCAGACTGGCTCTGTGGGGCTGGGCATGTGCTGCTACGTGTTT
TCAGCCAGCAGCTCCAGGCAGCACAGGTGAGCCCTGATGACATTTCTCTTGCTTCTGGTGCCTGCTGCTGCTGCT
GTCGTGCCAGGGAGTACGGCGCCCTGGAATTCCTTCACATCACTTTCCAGTGCTTCTTTGCCGCTTCTACCTG
GCACTCAGTGCTGATGTGCCACCAGCTTTGCTCAGACACCTCTTCAATTGTGGCAGGCCAGGCAACTCACCAATG
GCCAGGCTCCTGCCACGATGTGCATCCAGGCCTCGGAGGGAAAGGACAGCAGCGTGGCAGCTTTGCTGCAGAAG
GCCGAGCCGCACAACCTTCAGATCACAGCAGCCTTCTGTCAGGGCTGTTGTCCCGGGAGCACTGGGGCCTGCTG
GCTGAGTGCCAGACATCTGAGAAGGCCCTGCTCCGGCGCCAGGCCTGTGCCGCTGGTGTCTGGCCCGCAGCCTC
CGCAAGCACTTCCACTCCATCCCGCCAGCTGCACCGGGTGAGGCCAAGAGCGTGCATGCCATGCCCGGGTTTCATC
TGGCTCATCCGAGCCTGTACGAGATGCAGGAGGAGCGGCTGGCTCGGAAGGCTGCACGTGGCCTGAATGTTGGG
CACCTCAAGTTGACATTTTGCAGTGTGGGCCCCACTGAGTGTGCTGCCCTGGCCTTTGTGCTGCAGCACCTCCGG
CGGCCCCTGGCCCTGCAGCTGGACTACAACCTCTGTGGGTGACATTGGCGTGGAGCAGCTGCTGCCTTGCTTGGT
GTCTGCAAGGCTCTGTATTTGCGCGATAACAATATCTCAGACCGAGGCATCTGCAAGCTCATTGAATGTGCTCTT
CACTGCGAGCAATTGCAGAAGTTAGCTCTATTCAACAACAAATTGACTGACGGCTGTGCACACTCCATGGCTAAG
CTCCTTGATGCAGGCAGAACTTCTTGGCATTGAGGCTGGGGAATAACTACATCACTGCCGCGGGAGCCCCAAGTG
CTGGCCGAGGGGCTCCGAGGCAACACCTCCTTGAGTTTCTGGGATTCTGGGGCAACAGAGTGGGTGACGAGGGG
GCCCAGGCCCTGGCTGAAGCCTTGGGTGATCACCAGAGCTTGAGGTGGCTCAGCCTGGTGGGGAACAACATTGGC
AGTGTGGGTGCCCAAGCCTTGGCACTGATGCTGGCAAAGAACGTCATGCTAGAAGAACTCTGCCTGGAGGAGAAC
CATCTCCAGGATGAAGGTGTATGTTCTCTCGCAGAAGGACTGAAGAAAAATTCAAGTTTGAAGAACTCTGAAGTTG
TCCAATAACTGCATCACCTACCTAGGGGCGAGAAGCCCTCCTGCAGGCCCTTGAAAGGAATGACACCATCCTGGAA
GTCTGGCTCCGAGGGAACACTTTCTCTCTAGAGGAGGTTGACAAGCTCGGCTGCAGGGACACCAGACTCTTGCTT
TGAAGTCTCCGGGAGGATGTTCTGCTCAGTTTGTGTTGTGAGCAGGCTGTGAGTTTGGGCCCCAGAGGCTGGGTGA
CATGTGTTGGCAGCCTCTTCAAAATGAGCCCTGTCTGCTTAAGGCTGAACCTGTTTTCTGGGAACACCATAGGT
CACCTTTATTCTGGCAGAGGAGGGAGCATCAGTGCCCTCCAGGATAGACTTTTCCCAAGCCTACTTTTGCCATTG
ACTTCTTCCCAAGATTCAATCCCAGGATGTACAAGGACAGCCCTCCTCCATAGTATGGGACTGGCCTCTGCTGA
TCTTCCAGGCTTCCGTGTGGGTGAGTGGGGCCCATGGATGTGCTTGTTAACTGAGTGCCTTTTGGTGGAGAGGC

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FIGURE 2340B

CCGGCCTCTCACAAAAGACCCCTTACCCTGCTCTGATGAAGAGGAGTACACAGAACACATAATTCAGGAAGCAG
CTTTCCCATGTCTCGACTCATCCATCCAGGCCATTCCCGTCTCTGGTTCCCTCCCTCCTCCTGGACTCCTGCA
CACGCTCCTTCTCTGAGGCTGAAATTCAGAATATTAGTGACCTCAGCTTTGATATTTCACTTACAGCACCCCA
ACCCTGGCACCCAGGGTGGGAAGGGCTACACCTTAGCCTGCCCTCCTTTCCGGTGTTTAAGACATTTTTGGAAGG
GGACACGTGACAGCCGTTTGTTCCTCAAGACATTCTAGGTTTGCAAGAAAAATATGACCACACTCCAGCTGGGAT
CACATGTGGACTTTTATTTCCAGTGAAATCAGTTACTCTTCAGTTAAGCCTTTGGAAACAGCTCGACTTTAAAAA
GCTCCAAATGCAGCTTTAAAAAATTAATCTGGGCCAGAATTTCAAACGGCCTCACTAGGCTTCTGGTTGATGCCT
GTGAAGTGAAGTCTGACAACAGACTTCTGAAATAGACCCACAAGAGGCAGTTCCATTTCAATTTGTGCCAGAATGC
TTTAGGATGTACAGTTATGGATTGAAAGTTTACAGGAAAAAAATTAGGCCGTTCTTCAAAGCAAATGCTCTCC
TGGATTATTCAAATGATGTATGTTGAAGCCTTTGTAAATTGTCAGATGCTGTGCAAATGTTATTATTTTAAACA
TTATGATGTGTGAAAAGTGGTTAATATTTATAGGTCACCTTTGTTTTACTGCTTAAGTTTATACTCTTATAGACA
ACATGGCCGTGAAGTTTATGCTGTAAATAATCAGAGGGGAATAAACTGTTGAGTCAAAAC

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FIGURE 2341

MGEEGGSASHDEEERASVLLGHSPGCEMCSQEAFQAQRSQVLVELLVSGSLEGFESVLDWLLSWEVLSWEDYEGFH
LLGQPLSHLARRLDDTVWNKGTWACQKLIAAAQEAQADSQSPKLHGCWDPHSLHPARDLQSHRPAIVRRRLHSHVE
NMLDLAWERGFVSQYECDEIRLPIFTSPQRARRLLDIATVKANGLAAFLQHVQELPVPLALPLEAATCKKYMAL
LRTTVSAQSRFLSTYDGAETLCLEDIYTENVLEVWADVGMAGPPQKSPATLGLEELFSTPGHLNDDADTVLVVGE
AGSGKSTLLQRLHLLWAAGQDFQEFLLVFPFSCRQLQCMAPLSVRTLLFEHCCWPDVGQEDIFQLLLDHPDRVL
LTFDGFDEFKFRFTDRERHCSPDPTSVQTLFNLQGNLLKNARKVVTSRPAAVSAFLRKYIRTEFNLKGFSEQ
GIELYLRKRHHPEPGVADRLIRLLQETSALHGLCHLPVFSWMVSKCHQELLLQEGGSPKTTTDMYLLILQHFLHA
TPPDSASQGLGPSLLRGRLP TLLHLGRLALWGLGMCCYVFSQQQLQAAQVSPDDISLGFLVRAKGVVPGSTAPLE
FLHITFQCFFAAFYLALSADVPPALLRHLFNCGRPGNSPMARLLPTMCIQASEGKDSSVAALLQKAEPHNLQITA
AFLAGLLSREHWGLLAECQTSEKALLRRQACARWCLARSLRKHFHSIPPAAPGEAKSVHAMPGFIWLIRSLYEMQ
EERLARKAARGLNVGHLKLTFC SVGPTCAALAFVLQHLRRPVALQLDYN SVGDIGVEQLLPCLGVCKALYLRDN
NISDRGICKLIECALHCEQLQKLALFNNKLT DGC AHSMAKLLACRQNF LALRLGNNYIT AAGAQVLAEGLRGNTS
LQFLGFWGNRVGDEGAQALAEALGDHQSLRWLSLVGNNIGSVGAQALALMLAKNVMLEELCLEENHLQDEGVCSL
AEGKKNSSLKILKLSNNCITYLGAEALLQALERNDTILEVWLRGNTFSLEEVDKLGCRDTRLLL

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FIGURE 2342

GCGCGCCACGGCAGGAAAAGGGCGGTCTGCGCTGTGGCCCACGCTCGCTCCCGCTGTTCGGACTCTGGGCCTGGAC
CGCGCGTGGCCGGCGCCAAAAGCGAGAGGCATGAGCGCGCGCCCGGGCCAGTGAACCTGCTCGGGG**ATGG**ACTGCG
GCTCGGTTCGGCGGCCAGAGGACCCAGCGCCTGCCCGGCCGCCAGCGGGCTTCTCTTCTTGCCCGTGGGCCTCAGCG
GAAGACCGGGCGGCAGCGAAACCTCAGCACGCCGCTGCCCTCTGCGCTCTCCGACGGTCTGGGGGCGCTGCGCC
CTCGCGCCCCGGCGGCCCGCGCGCGCGTGTACGTGCCTCACCGCTGCTCCTCCTGCTAGTGCCCTCCCCCG
GCTTGGCCGCCGAGCCCCGCGCGCGGCGAGCTCGGGGACTGGGAGCGCTCGCGCTCGGGTATGCCGCACCCCCG
CCGGGCGCAGCGGCGCGTGGAGGTGCTCACCGGGCGTCGCCGCGCGCGCCCTTCCCCAGTACCACGGCC
CGGCGCCTGCACTCGTTTCTGTCAGGAGAGAGCTAAGCTTGTCTGCTGGATCCCTGCAGCTGGAGCGCAAAAGGA
GAGATTTACCTCTTCTGGGAGCAGGAACTCTACTTCGACACTCATGCCTTAGTGTGCTTACTGGAAGACAATG
AATCTCACTCTTTCATCCAGGCTGGAGTGCAGTGGCACAGTCTTGGCCTACTGCAACCCCCACCTCCCGGTTTCA
AGCGATCTCCACCTCATCTCCTGAGTAGCTGGGATTACAGGCATGCACCACCACACCTGGATAATTTTTCTG
TATTTTTACTAGAGACGGGGTTTACCATGTTGGCCAGGCTGGTCTCAAACCTGCTGACCTCAAGTGATCCACCCA
CCTTGGCCTCC**TAA**AGTGTGTTGGGATTACAGGCGTGAACCACTGTGTCCAGTTGCCAAACCTAATTATGTTTAAAC
ATGAACTCTTTTTTAAATTTAAATTTTTTAAATTTTATTTACATTTAAATGGAGATGGGATCACTATGTTGCC
ATGCTGGTTCTGAACTCCTGGGCTCAAAGATCTCCCGCCTTGGTCTCCAGAGTGTTAGGATTACAGGCGTGAG
CCACCACACCCAGCCAGTGAACCTCTTCTTAATAAACTTTAAATTTGGCAAAAGTTTAGTTTGAGTTTTTAAAA
ACTAGGAAGACAGACGAGAAAAAAGAAAACAGAGTCAGAGCTAAACAATGTTAACATTTTGGGTTTGCTACTCAA
CAAGCAGAAATCATTGTGTCTGCATTGGTCAAGATCCTGGAGGCCAACATGGACATCGTCTACAAAGATATGGTC
ACCAAGATGCAGCAGGAAATCACTTTTCAGCAAGTAATGTCTCAGATTGCGAATGTGAAAAAGGATATGATTATT
TTGGAGAAGAGTGAAATTTTCAGCCCTCAGAGCAGAAAATGAGAAAATAAACTCGAACTACATCAGTTAAACAA
CAAGTAATGGATGAAGTGATCAAAGTCCGAACAGATACCAAATTAGACTTCAACCTAGAAAAGAGCAGAGTAAAA
GAATTGTATTCAATTGAACGAAAAGAAGCTGCTGGAATTGAGAACAGAAATAGTGGCATTGCATGCCAGCAAGAT
CGGGCCCTTACCCAGACAGACAGGAAGATCGAACTGAGGTTGCTGGCCTCAAACCATGCTTGAGTCACACAAG
CTTGATAATATTAAATATTTAGCAGGGTCTATATTTACGTGCCTAACAGTAGCTCTGGGATTTTATCGCCTGTGG
ATCTAATAAAGTGTCTATTTAAAGTGAAAAA

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FIGURE 2343

MDCGSVGGQRTQRLPGRQRLFLPVGLSGRPGGSETSAARRCPSALSDGLGALRPRAPAARGGVSRASPLLLLLLV
PSPRLAAAAPRRQLGDWERSRLGYAAPAGRSGAWRCSPGVAAAAGALPQYHGPAPALVSCRRELSLSAGSLQLE
RKRRDFTSSGSRKLYFDTHALVCILEDNESHSTIQAGVQWHS LGLLQPPPPGFKRSSHLILLSSWDYRHAPPHLD
NFSVFLLETGFHHVGQAGLKLLTSSDPPTLAS

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FIGURE 2344

ATTCCAAGTCGCTGCTGTGCAGAGCAGCAAGTGCTCCGTGCAGGGCTGTTGCTATCACTTGGAGGTGAACAGCCT
CTTTTGCCGGTATTCAGTGAAGAAAGCAAGTCTAAATATGCAGTTCTCTCACTGGAGTGAAAGATGTTTTGTTCA
TTTCTAATCAACT**ATG**CTAGACAGCTGCAAGCTGAAAAGTGCCTGCAATTTGCCATTTATTTGTAATAAGAAAAT
AATAAACACTGCTGGAACCAAGTAATGCAGAAATCCCTTGGCTGATCCCGGAATGTACCAGCTGGACATTACATT
AAGAAGGGGTCAAAGTTTAGCTGCTCGAGATCGAGGAGGGACGAGTGATCCATATGTGAAGTTTAAAAATCGGAGG
AAAAGAAGTTTTTAGAAGTAAGATAATACACAAGAACCTCAACCCTGTGTGGGAAGAAAAAGCTTGTATTCTGGT
TGATCATCTTAGGGAGCCATTGTATATAAAGGTATTTGACTATGATTTTGGACTACAGGATGACTTTATGGGCTC
AGCCTTCTGATCTGACACAATTGGAGTTAAACAGGCCACAGATGTGACCCTTACTCTGAAAGATCCTCATT
TCCTGACCATGATCTTGAATCATTTTTGCTCTCAGTCATCCTTACCCCTAAAGAAGGAGAGTCCAGGGATGTGAC
AATGCTAATGAGGAAGAGTTGGAAAAGATCAAGTAAGTTTCAGACCCAAAGTTTACGCCTATCAGACCTACACAG
AAAATCGCATCTTTGGAGAGGAATAGTCAGCATCACCTTGATTGAAGGGAGAGACCTCAAGGCCATGGATTCCAA
CGGGTTGAGCGATCCCTACGTGAAGTTCGGCTTGGGCATCAGAAGTACAAGAGCAAGATTATGCCAAAAACGTT
GAATCCTCAGTGGAGGGAACAATTTGATTTTCACCTTTATGAAGAAAGAGGAGGAGTCATTGATATCACTGCATG
GGACAAAGATGCTGGGAAAAGGGATGATTTTCATTGGCAGGTGCCAGGTGACCTGTGACCCCTCAGTAGGGAACA
GACGCACAAGCTGGAGTTGCAGCTGGAAGAGGGTGAGGGACACCTGGTGTGCTGGTCACTCTGACAGCATCAGC
CACAGTCAGCATCTCTGACCTGTCTGTCAACTCCCTGGAGGACCAGAAGGAACGAGAGGAGATATTAAAGAAATA
TAGCCCATTTAGGATATTTTACAACCTGAAAGATGTGGGATTTCTCCAGGTGAAAGTCATCAGAGCGGAAGGGTT
AATGGCTGCCGACGTCACTGGAAAAGTGACCCATTTTGTGTGGTAGAACTGAACAACGATAGACTGCTAACACA
TACTGTCTACAAAATCTCAATCCTGAGTGAATAAAGTCTTCACGTTCAACATTAAAGATATCCATTCAGTTCT
TGAAGTGACAGTTTATGATGAAGATCGGGATCGAAGTGCTGACTTTCTGGGCAAAGTTGCTATACCATTGCTGTC
TATTCAAAATGGTGAACAGAAAGCCTACGTCTTGAAAAACAAGCAGCTGACAGGGCCAACAAAGGGGGTCATCTA
TCTTGAAATAGATGTGATTTTTAATGCTGTGAAAGCCAGCTTACGAACATTAATACCCAAAGAACAGAAAGTACAT
TGAAGAGGAAAACAGACTCTCTAAACAGCTGCTACTAAGAACTTTATCAGAATGAAACGTTGTGTGATGGTGCT
GGTAAATGCTGCATACTACGTTAATAGTTGCTTTGATTGGGATTCACCCCCAAGGAGTCTCGCTGCTTTTGTGGT
AGTGAGGACATGCTAGAGGACGAGGAAGAAGAAGATGACAAAAGATGACAAGGACAGTGAAAAAAGGGATTTAT
AAATAAAATCTATGCCATCCAGGAGGTATGTGTGAGTGTCCAGAACATCCTAGATGAAGTGGCTTCCTTTGGCGA
AAGGATAAAGAATACTTTCAACTGGACTGTCCCATTCTTAAGCTGGCTGGCCATTGTAGCCCTCTGTGTGTTTAC
AGCCATCCTGTACTGCATTCCGCTGAGATACATTGTCCTTGTCTGGGGCATCAATAAATTTACAAAAAAGCTTCG
GAGTCCATATGCAATTGATAACAATGAACTACTTGACTTCCTTTCCAGAGTCCCTTCAGATGTACAAGTGGTGCA
ATACCAAGAACTGAAACCAGATCCTTCTCATAGCCCATATAAAAGAAAGAAAAACAATCTTGGCT**TAG**CCAGCTCC
CAGCAATGAGGAGACCAGCATCTGTTTGGGAAGATAAAAGAAAAAGCCCTCAGCCTCAGCAGCATTTTCCTTTCTT
TCTGCTTTTTTATTTATTTTGCCTTTTTATCATGATCGAGAGAATCTGTAAATAGTGTACAAAGGCATATGTCTTT
GAATATATACTTCTATTGTACAGACTCAACTTGATAAAGGTTTTGCTACTGCTGTGTGCAAAACCTTGTTAGCTGT
GGATAATAATATAACACACTGAAAGAACAATATAAGAATGATAACACTGGAAGATATATTCTTATCTAATTACT
AGTGGATTAAATACTCACCTGTGCTCTGATTAAATCTACATCAATTGT

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FIGURE 2345

MLDSCKLKSACNLPPFICNKKIINTAGTSNAEVPLADPGMYQLDITLRRGQSLAARDRGGTSDPYVKFKIGGKEVF
RSKIIHKNLNPNVWEEKACILVDHLREPLYIKVFDYDFGLQDDFMGSAFLDLTQLELNRPTDVTLTCLKDPHYPDHD
LGIILLSVILTPKEGESRDVTMLMRKSWKRSSKFQTQSLRLSDLHRKSHLWRGIVSITLIEGRDLKAMDSNGLSD
PYVKFRLGHQKYKSKIMPKTLNPQWREQDFHLYEERGGVIDITAWDKDAGKRDDFIGRCQVDLSALSREQTHKL
ELQLEEGEGHLVLLVTLTASATVSISDLSVNSLEDQKEREIEILKKYSPLRIFHNLKDVGFQVKVIRAEGLMAAD
VTGKSDPFCVVELNNDRLLTHTVYKNLNPEWKNKVFTFNIKDIHSVLEVTYDEDRDRSADFLGKVAIPLLSIQNG
EQKAYVLKNKQLTGPTKGVIIYLEIDVIFNAVKASLRTLIPKEQKYIEEENRLSKQLLLRNFIRMKRCVMVLVNAA
YYVNSCFDWDSPPRSLAAFVVVEDMLEDEEEEDDKDDKDSEKKGFINKIYAIQEVCSVQNILDEVASFGERIKN
TFNWTVPFLSWLAIVALCVFTAILYCIPLRYIVLVWGINKFTKKLRSPY AidNNELDFLSRVPSDVQVVQYQEL
KPDPSHSPYKRKKNNLG

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FIGURE 2346

CTGGGCTCGGGTGATCCTCCTGTCTTAGCCTTCCAAGGTGCTGGGATTACAGGTGTGGGCCACCATGCCCAGCCA
CCATCTTGGTTTAAATTTCTTTCCTTGGAAATGGAGCAAAGGGCTTTCACTCTTCTTTTTCATGGCTGCATAGTAT
TCCATAATTGTTTAAACAATTGATAATAGACACTGTATCGGGGTGACTGGTATACCCCCAAAATCACATCTGCCC
AGAGCCTCAGGACATGGCCTTGTTTGGAAATGGTTTTAGCAGATGCAGCTAAGATGAGGTACCCCCGTGTTAGGA
TGGCCCCGAATCCAGTGCCTGGCACCCCTTATAAGGAGAGGGAACTTGGACGCAGACAGGAAGGCCGGGTGAAGA
CAGAAGCAGAGACCGGGGGCCAAGGAGTGCCTGGGGTTGCCAGAGCCACCACGGGCTGCAAGAGGTGTGGGACA
GACTCTCTCAGCCACAGAAGGGCCCAGCCCCGCACAGGCCTGGATTTCAGAGGGCGAACATTTCTGTGGCCGAAG
CTCCAGTGCCTTTGCAGTCTTGGAGACGGCCGCAGACACATTTGTTCTTGGCCTGTCTCCAGGTCTGTAGCCC
CCACAGTGAGCGGCCACTGGCCGGAGGGGAACAGGAAGAGCTGGAGGGGACGTACACACATGAGCCTTTTAGGA
ATAACGAGTGAACAGTGAAGACCCCAAACCAAACACCATGTAACTGACACCCAGGGAGGGAGGGAGGGAGGGG
CTGGGAGGGGCTCACCTGTAGGGAGGGGCTCACCTGTACAGCGGTGCTGGGAAGCTGGCCTCGAGGGTCCCCGAG
GGGATACAGGGCCGTGCAGCCTCTTGCCTGAGGGTTTGCATGTCTGCCTGGATCCCCCGGGCTCCTGCCAGAAGG
CCTCTGAGGCCACCGTTGACAGCATAAAGGCCACCCAGTGTCTCGGCAACCACGCTGACCACTCCCTCCTCCAG
CTGCGGGGTGAGGTGGCCTCGAGGGAAGGGCTGGAGAGTCGTTCTGAGTATTTAACAACCTGGGGGTGACACAGTG
TGGGTGGGCAAGGCCAGGGCCACTGCCAGGTGGGGTCCGTGGCCCTGAGCCCCCAGCTCTATGCACCCCCACCT
GGGGTCTGGCTTCTCCATCTCCACACCCCCTTGAGGGGCTTCTGTCTCCCCCTGCCCTTCGATCGCAGGAGGCA
GTGCCTGGCCGGGGTCGCAGGCACCTGTCACCCAGCTCCTCACTCCTCACCCACTCACATCCAGTCCGTTTGTA
AAATACACCCAGGATGAGACCTGCACGCAAGTGGCTCACAGCAGCACGATTTGTGACAGCCCAGGCGGAGAACA
CCGAACACCCAGTGAAGGTGAGGGGATCAGCACGGCGCGGCCACCCACGCACCCACGCGCTGGAATGAGACTCAG
CCACAAGGAGGTGCGAAGCTCTGACCCAGGCCACAGTGC GGATGCACCTTGAGGATGTCACGCTCAGTGAGAGAC
ACCAGACACAGAAGGGTACGCTGTGATCCCACTTCTATGAAATGTCCAGGACAGACCAATCCACAGAATCAGGGA
GAGGATTCTGTGGGTGCCGGGACTGGGGAGGGGGACCTGGGGGTGACTAGGTGACATAATGGGGACAGGGCTGCCT
TCTGGGTGATGAGAATGTTCTGGAATCAGATGGGATGGCTGCACGGCGTGGTGAAGGTACTGAACGCCACCTCAC
TGTAAGACGGTAGATTTTGTATTTTACCACAATAAAACAAAACAAAACCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2347

MVLADAAKMRSRVRMAPNPVPGTLIRRGKLGRREQEGRVKTEAETGGQGVPGVAQSHHGLQEVWDRLSQPQKGPA
PHRPGFQRANISVAEAPSAFAVLGDGRRHICSWPVSRVAPTIVSGHWPEGNRKSWRGRHTHEPFRNNE

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FIGURE 2348

TTTTCAGAGACTCGCCTGGCAGAGGCCTGGAGCGTCCTGCTGCGTGGACTGTGGGCACCGAGCCACCAGGAGGTT
GTTGATCTCATTCTTGCTCACTGGTCCCTGCCAGACTGGTGGTGCCTCTCTACTGTGCGGCAGCCCCACCTCTGT
GCTGCCCCATCCACCTACAGCCCTCATGCCTGGGCCAGCTGGAGGTTCTGACAGGGGCCCCCTGGGGTGGCATG
CGGACCCTTCAGGGTGCCCCAGGCGCAGCACAGGTCTCCAGAGACACAGGCACCAGGGCGTTTCAGAGCTAGTCCC
CTCGCTGCTGTTGACTGTCTTTGAGCAGCCCCAGGGCCGTTTTCTCAACCTCATTITGCTCACCTGAGCAATGAAG
TGAGGTGGGCTCCTGGAAGTGCAGCAGCCACCCCCGGGGCCATCGTGAGGCTAAGAATCCAGTGCAGGGTGAGC
AACCAGCGACCGCTACAAGGACAGTGAAGAGCTAGCACCAGGACCTTGGGTAGCCCCACCCGCTGGAGGGAGCGTG
TGCTGCAAAAAGCAAGAGTGGGCTTTGGAGGCCAACGGATGGAGCGGATTCAGTCTGAGGCTGTTCCAGCCCTTG
CTTAGGATCCACCTACCTAGGTCTGGAATCGTATTTCCACTTCAGATGCCTTCTCAGAGGATAAAATAACCCCC
GGTGGGGGAGAGTACTGGAAGAGGGCTAATTCCTTGGTTTTCTCCCCATGAGCATTAGTGTGAGTGAATTTTA
GAGTGACCCCAGCTATGTACGTGTGGCAGGCACAAGAACAGATGTCAATGAGCTATTGCAGAGGTGGACACCCA
GATGTGTGCGTGGCACACTGGAGGGGCCGTAGGGTGGCTCTAGACCGCCCCCTCGTGACGGCTTGCCCTACCAC
CTGCAGGCGACGTTGTGGACGTTTACCAGCGGGAGTTCCTGGCGCTGCGCGATCGGTTGCACGCAGCTGAGCAGG
AGAGCCTCAAGCGCTCCAAGGAGCTCAACCTGGTGTGACGAGATCAAGAGGGCCGTGTCAGAAAGGCAGGCGC
TGCGAGACGGAGACGGCAATCGCACCTGGGGCCGCTAACAGAGGACCCCCGATTGAAGCCGTGGAACGGCTCAC
ACCGGCACGTGCTGCACCTGCCCCACCGTCTTCCATCACCTGCCACACCTGCTGGCCAAGGAGAGCAGTCTGCAGC
CCGCGGTGCGCGTGGGCCAGGGCCGACCGGAGTGTGCGTGGTGTATGGGCATCCCAGCGTGGCGCGCAGGTGC
ACTCGTACCTGACTGACACTCTGCACTCGCTCATCTCCGAGCTGAGCCCGCAGGAGAAGGAGGACTCGGTCTATCG
TGGTGTGATCGCCGAGACTGACTCACAGTACACTTCGGCAGTGACAGAGAACATCAAGGCCCTTGTTCCCCACGG
AGATCCATTCTGGGCTCCTGGAGGTCTCTACCCCTCCCCCACTTCTACCCTGACTTCTCCGCGCTCCGAGAGT
CCTTTGGGGACCCCCAAGGAGAGAGTCAGGTGGAGGACCAACAGAACCTCGATTACTGCTTCTCTCATGATGTACG
CGCAGTCCAAAGGCATCTACTACGTGCAGCTGGAGGATGACATCGTGGCCAAGCCCACTACCTGAGCACCATGA
AGAACTTTGCACTGCAGCAGCCTTCAGAGGACTGGATGATCCTGGAGTTCTCCCAGCTGGGCTTCATTGGTAAGA
TGTTCAAGTCGCTGGACCTGAGCCTGATTGTAGAGTTTATTCTCATGTTCTACCGGGACAAGCCCATCGACTGGC
TCCTGGACCATATTCTGTGGGTGAAAGTCTGCAACCCGAGAAGGATGCGAAGCACTGTGACCGGCAGAAAGCCA
ACCTGCGGATCCGCTTCAAACCGTCCCTCTTCCAGCACGTGGGCACCTACTCCTCGCTGGCTGGCAAGATCCAGA
AACTGAAGGACAAAGACTTTGGAAGCAGGCGCTGCGGAAGGAGCATGTGAACCCGCCAGCAGAGGTGAGCACGA
GCCTGAAGACATAACGACACTTCACCCTGGAGAAAGCCTACCTGCGCGAGGACTTCTTCTGGGCCTTACCCCTG
CCGCGGGGGACTTCATCCGCTTCCGCTTCTTCCAACCTCTAAGACTGGAGCGGTTCTTCTTCCGAGTGGGAACA
TCGAGCACCCGGAGGACAAGCTCTTCAACAGTCTGTGGAGGTGCTGCCCTTCGACAACCCTCAGTCAGACAAGG
AGGCCCTGCAGGAGGGCCGCACCGCCACCCTCCGGTACCCTCGGAGCCCCGACGGCTACCTCCAGATCGGCTCCT
TCTACAAGGGAGTGGCAGAGGGAGAGGTGGACCCAGCCTTCGGCCCTCTGGAAGCACTGCGCCTCTCGATCCAGA
CGGACTCCCCCTGTGTGGGTGATTCTGAGCGAGATCTTCTGAAAAAGGCCGACTAAGCTGCGGGCTTCTGAGGGT
ACCCTGTGGCCAGCCCTGAAGCCACATTTCTGGGGGTGTGCTCACTGCCGTCCCCGGAGGGCCAGATACGGCCC
CGCCCAAAGGGTTCTGCCTGGCGTGGGGCTTGGGCCGGCCTGGGGTCCGCCGTGGCCCGGAGGCCCTAGGAGCT
GGTGTGCCCCCGCCCGGGCGCGGAGGAGGCAGGCGGCCCCACACTGTGCCTGAGGCCCGGAACCGTTTCG
CACCCGGCCTGCCCCAGTCAGGCCGTTTTAGAAAGAGCTTTTACTTGGGCGCCCGCGTCTCTGGCGCGAACACTG
GAATGCATATACTACTTTATGTGCTGTGTTTTTATTCTTGGATACATTTGATTTTTTTCACGTAAGTCCACATAT
ACTTCTATAAGAGCGTGAATTGTAATAAAGGGTTAATGAAG

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FIGURE 2349

MSRVAGTRTDVNELLQRWTPRCVRWHTGGARRVALDRPLVTACLPPAGDVVDVYQREFLALRDLHAAEQESLKR
SKELNLVLDEIKRAVSERQALRDGDGNRTWGRITEDPRLKPWNGSHRHVLHLPTVFHHLPHLLAKESSLQPAVRV
GQGRITGVSVVMGIPSVRREVHSYLTDTLHSLISELSPQEKEDSVIVVLIAETDSQYTSAVTENIKALFPTTEIHSG
LLEVISPSPHFYPDFSRLRESFGDPKERVWRWTKQNLDYCFLMMYAQSKGIYYVQLEDDIVAKPNYLSTMKNFAL
QQPSEDWMILEFSQLGFIGKMFKSLDLSLIVEFILMFYRDKPIDWLLDHILWVKVCNPEKDAKHCDRQKANLRIR
FKPSLFQHVGTSSLAGKIQKLKDKDFGKQALRKEHVNPPAEVSTSLKTYQHFTLEKAYLREDDFFWAFTPAAGDF
IRFRFFQPLRLERFFFRSGNIEHPEDKLFNTSVEVLPPDNPQSDKEALQEGRTATLRYPRSPDGYLQIGSFYKGV
AEGEVDPAFGPLEALRLSIQTDSPVWVILSEIFLKKAD

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FIGURE 2350

GGCAAATGGGCTTGGGCGGCTCCTCGGCGGGTGGCGGTGGTGGCCGTAGCGGTTCCCTCCTGGCCCTGTTAATGTC
GGGGCCAGGCCGGGGGAGGATGGCGCCCTAGAACCCGGCCTTGCTGGGGTAGGGGCGGGAGGGGACGGGGTGGGG
ACCGGCCATGTCGGAGGTGACCCGGAGTCTGCTGCAGCGCTGGGGCGCCAGTTTTAGGAGAGGCGCCGACTTCGA
CTCTTGGGGCCAGCTGGTGGAGGCGATAGACGAGTATCAGATATTAGCAAGACATCTACAAAAGGAGGCCCAAGC
TCAACACAATAATTCTGAATTCACAGAAGAACAAAAGAAAACCATAGGCCAAAATTGCAACATGCTTGGAATTGCG
AAGTGCAGCTTTACAGTCCACACAGTCTCAAGAAGAATTTAAACTGGAGGACCTGAAGAAGCTAGAACCAATCCT
AAAGAATATTCTTACATATAATAAAGAATTCCCATTTGATGTTTCAGCCTGTCCCATTAGAAGAATTTTGGCACC
TGGTGAAGAAGAGAATTTGGGATTTGAAGAAGATGAAGAAGAGGGTGGTGTGAGCAGGGTCTCCTGATTCTTT
TCCTGCTAGAGTTCCCGTACTTTATTACCAAGGTTGCCATCGGAACCAGGAATGACATTACTCACTATCAGAAT
TGAGAAAATTGGTTTGAAAGATGCTGGGCAGTGCATCGATCCCTATATTACAGTTAGTGTAAGGATCTGAATGG
CATAGACTTAACTCCTGTGCAAGATACTCCTGTGGCTTCAAGAAAAGAAGATACATATGTTTCAATTTAATGTGGA
CATTGAGCTCCAGAAGCATGTTGAAAAATTAACCAAGGTGCAGCTATCTTCTTTGAATTCAAACACTACAAGCC
TAAAAAAGGTTTACCAGCACCAAGTGTTTTGCTTTTCATGGAGATGGATGAAATTAAACCTGGGCCAATTGTAAT
AGAACTATAACAAGAAACCCACTGACTTTAAAGAAAGAAATTGCAATTATTGACCAAGAAACCACTTTATCTTCA
TCTACATCAAACCTTTGCACAAGGAATGATCCTGACATGATGAACCTGGAACCTCTGTGAATTTTACCCTCAGTA
GAAACCATCATAGCTCTGTGTAGCATATTACCCCTTCAACAGGCAGGAAGCAAGCCGTACCCAGACCAGTAGGCC
GGACGGAGTCCAATGCAAAGCTGTACCACAGAATTCAGAGTCCAGCACATCACACTGACGTATAGGACTCCTTGG
GATACAGGTTTATTGTAGATTTTGAACATGTTTTTACTTTTCTATTAATTGTGCAATTAATAGTCTATTTTCTA
ATTTACCCTACTCCTACCCTGCTTCTCGGAACAATACTGTTGTGGGTAGGATGTGCTCATCTTCAGACTTAATA
CAGCAATAAGAATGTGCTAGAGTTTACACATCTGTTCACTTTTGTCTCCAATATGCTCTTTTGACTTAACGTCAAG
CTTTGGGTTGATGTGGGTAGGGTAGTGTCAAACCTGCTTTGAGAGGAATGGGACCAGTTCTGCTGCCTAAGAAGGT
CTGTCTGGATGTTTATAGGCAGCACCTCTGAAGTGGCCTAAATTCACCCGTGATCTGATAGTTTTCTGCTTAGAA
AGTGTGCCCTTGGCCAGATCAGTATCCACATGGGAGTGTTCCCTAGGTTGTAGCTGTGATTGTTTCCAGATGACC
AGATTGTTTTTCTGAAAATGAGCATATTTTTAGTTCATGTCGATTAGCTGTTCTTCTACATCACATTGTTACTCTT
TCTGATGATGATTCTAGGGTTAACATTGGAACCATCTCAAAAATAATTACAAAGTTTTAGATGGGTTTACAATGTC
TTCTAAACAATGTAATCTAAAAATAATTGAGTCAGATGCTAACGAGATACTGCAGGCATAACTGCTGTTTTTCTG
ACAACCTGATTGTGAAACCTTAAACCTGCATACCTCTTCTTACAGTGAGGAGTATGCAAAATCTGGAAAGATATT
CTATTTTTTTTATATAGGTAGATAGGATCGCCATTTATTTCTATTTAGATATACTGACATTCATCCATATGAAA
ATATGCAGGTCATTAGCTTACTATAATTTACTTTTGACTTAATGGGGCATAAATAAACTTTTCATAGTACACATG
AGGTGGATATTTGATACACAGAACATTTGCGGTGGGCTTTCTGTGGGTTAGATGTAAAGCCCACATATTTAATA
TTCATATTTTAAATGAGCAATGCATGAGGGGAATGCAGTGTGAGTACCTGGCCTATTTTTAACTAGTGTAATC
ACCCTAGTCATACCATTGAGTATGTTTGCTTTTTTAAATAAGTAACCACAATTAAGTTGTTGTAGCCCTTGCACT
TCAAGAGATCTAGTCTTTACTTTTCACTTGTCTGTTAGGTCCATTCTGTTTACTAGACGGATGTTAATAAAAACTA
TGCGAGCCTG

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FIGURE 2351

MSEVTRSL LQRWGASFRRGADFDSWGQLVEAIDEYQILARHLQKEAQAQHNNSEFTTEEQKKTIGKIATCLELRS
ALQSTQSQE EFKLEDLKKLEPILKNILTYNKEFPFDVQPVPLRRILAPGEEENLGFEEDDEEGGAGAGSPDSFPA
RVPGTLLPRLPSEPGMTLLTIRIEKIGLKDAGQCIDPYITVSVKDLNGIDLTPVQDTPVASRKEDTYVHFNV
DIE LQKHVEKLTGAAIFFEFKHYKPKKRFTSTKCFAMEMDEIKPGPIVIELYKKPTDFKRKKLQLLT
KKPLYLHLH QTLHKE

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FIGURE 2352

CTCCCGGCCTCCCTGGTCCCGCCTGGGAAGGGATGCAAGGAAGCCCTCCGGCGCTGCGCTCCGAGGCGGGAGACA
GCGTCCCCCTCCGCCCCCTCGGGTCCTGGCGCCTCAGAGCCCCGGCCAGGCCGCGGAACGGTGATGCTCGGGCCGG
ACGGGCGGGCGCGGATCCCTGCGTCCCGCTGAAAATGTGTGTCTGACATGCAAGCTCAGTGGGGCAGAGACCCGT
GGATTGCTGTGCCCTGCCCTCCGGACCTGGATCATGAAGGTGTTGGGAAGAAGCTTCTTCTGGGTGCTGTTTCCC
GTCCTTCCCTGGGCGGTGCAGGCTGTGGAGCACGAGGAGGTGGCGCAGCGTGTGATCAAACCTGCACCGCGGGCGA
GGGGTGGCTGCCATGCAGAGCCGGCAGTGGGTCCGGGACAGCTGCAGGAAGCTCTCAGGGCTTCTCCGCCAGAAG
AATGCAGTTCTGAACAAATTGAAAACCTGCAATTGGAGCAGTGGAGAAAGACGTGGGCCTGTCCGATGAAGAGAAA
CTGTTTCAGGTGCACACGTTTGAATTTTCCAGAAAGAGCTGAATGAAAGTGAAAATTCGTTTTTCCAAGCTGTC
TACGGACTGCAGAGAGCCCTGCAGGGGGATTACAAAGATGTCGTGAACATGAAGGAGAGCAGCCGGCAGCGCCTG
GAGGCCCTGAGAGAGGCTGCAATAAAGGAAGAAACAGAATATATGGAACCTTCTGGCAGCAGAAAAACATCAAGTT
GAAGCCCTTAAAAATATGCAACATCAAAACCAAAGTTTATCCATGCTTGACGAGATTCTTGAAGATGTAAGAAAG
GCAGCGGATCGTCTGGAGGAAGAGATAGAGGAACATGCTTTTGACGACAATAAATCAGTCAAGGGGGTCAATTTT
GAGGCAGTTCTGAGGGTGGAGGAAGGAGAGGCCAATTCTAAGCAAAATATAACAAAACGAGAAGTGGAGGATGAC
TTGGGTCTTAGCATGCTGATTGACTCCCAGAACAACCAGTATATTTTGACCAAGCCCAGAGATTCAACCATCCCA
CGTGAGATCACCACCTTTATAAAGGACATTGTTACCATAGGAATGCTGTCTTGCCTTGTGGCTGGCTATGTACA
GCCATAGGATTGCCTACAATGTTTGGTTATATTATTTGTGGTGTACTTCTGGGACCTTCAGGACTAAATAGTATT
AAGTCTATTGTGCAAGTGGAGACATTAGGAGAATTTGGGGTGTTTTTTACTCTTTTTCTTGTGGTTTAGAATTT
TCTCCAGAAAAGCTAAGAAAAGGTGTGGAAGATTTCTTACAAGGGCCGTGTTACATGACACTGTTAATGATTGCA
TTTGGCTTGCTGTGGGGGCATCTCTTGCGGATCAAACCCACGCAGAGCGTCTTCATTTCCACGTGTCTGTCTTG
TCAAGCACACCCCTCGTGTCAGGTTCTCATGGGCAGTGTCTGGGGTGACAAAGAAGGCGACATTGACTACAGC
ACCGTGCTCCTCGGCATGCTGGTGACGCAGGACGTGCAGCTCGGGCTCTTCATGGCCGTATGCCGACTCTCATA
CAGGCGGGCGCCAGTACATCTTCTAGCATTGTCTGGAAGTTCTCCGAATCCTGGTTTTGATTGGTCAGATTCTT
TTTTCTACTAGCGGCGGTTTTTCTTTTATGTCTTGTTATAAAGAAGTATCTCATTGGACCCTATTATCGGAAGCTG
CACATGGAAAGCAAGGGGAACAAAGAAATCCTGATCTTGGAATATCTGCCTTTATCTTCTTAATGTTAACGGTA
ATTCTCAAACATATGTGTTATTTATGTAATCTGATACATAATCTCTTTCACTGAAATCTTGTGATCCATTCTTTAC
CTTTCCATTTTAATAATGGTTAAATATTTGAA
AAAA

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FIGURE 2353

MKVLGRSFFWVLPVLPWAVQAVEHEEVAQRVIKLRGRGVAAAMQSRQWVRDSCRKLSGLLRQKNAVLNKLKTAI
GAVEKDVGLSDEEKLFQVHTFEIFQKELNESENSVFQAVYGLQRALQGDYKDVVNMKESSRQRLEALREAAIKKEE
TEYMELLAAEKHQVEALKNMQHQNQSLSMLEILEDVRKAADRLEEEIEEHAFDDNKSVKGVNFEAVLRVEEGEA
NSKQNI TKREVEDDLGLSMLIDSQNNQYILTKPRDSTIPRADHHFIKDIVTIGMLS LPCGWLCTAIGLPTMFGYI
ICGVLLGPSGLNSIKSIVQVETLGEFGVFFTLFLVGLEFSPEKLRKVWKISLQGPCYMTLLMIAFGLLWGHLLRI
KPTQSVFISTCLSLSSSTPLVSRFLMGSARGDKEGDIDYSTVLLGMLVTQDVQLGLFMAVMP TLIQAGASTSSSIV
VEVLRILVLIGQILFSLAAVFLCLVIKKYLIGPYRKLHME SKGNKEILILGISAFIFLMLTVILKLCVIYVI

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FIGURE 2354A

CTCCTCCTCCGTCTCCTCCTCTCTCTCATCTGCTGTGGTT**ATGG**CCTGTCGCTGGAGCACAAAAGAGTCTCCG
CGGTGGAGGTCTGCGTTGCTCTTGCTTTTCTCCTCGCTGGGGTGTACGGAAATGGTGCTCTTGCAAGAACATTCTGAA
AATGTGCATATTTTCAAGGAGTGTCAACTGCTTGTGGAGAGACTCCAGAGCAAATACGAGCACCAAGTGGCATAATC
ACAAGCCCAGGCTGGCCTTCTGAATATCCTGCAAAAATCAACTGTAGCTGGTTCATAAGGGCAAACCCAGGCGAA
ATCATTACTATAAGTTTTTCAAGGATTTTGATATTCAAGGATCCAGAAGGTGCAATTTGGACTGGTTGACAATAGAA
ACATACAAGAATATTGAAAGTTACAGAGCTTGTGGTTCCACAATTTCCACCTCCGTATATCTCTTCACAAGACCAC
ATCTGGATTAGGTTTCATTCCGATGACAACATCTCTAGAAAGGGTTTCAGACTGGCATATTTTTTCAGGGAAATCT
GAGGAACCAAATTTGTCTTGTGATCAGTTTCGTTGTGGTAATGAAAAGTGTATACCAGAAGCCTGGAAATGTAAT
AACATGGATGAATGTGGAGATAGTTCCGATGAAGAGATCTGTGCCAAAGAAGCAAATCCTCCAAGTCTGCTGCT
TTTCAACCCTGTGCTTACAACCAGTTCCAGTGTATCCCGTTTACCAAAGTTTACACTTGCCTCCCCGAATCT
TTAAATGTGATGGGAACATTGACTGCCTTGACCTAGGAGATGAGATAGACTGTGATGTGCCAACATGTGGGCAA
TGGCTAAAATATTTTTATGGTACTTTTAATTCTCCCAATTATCCAGACTTTTATCCTCCTGGAAGCAATTGCACC
TGGTTAATAGACACTGGTGATCACCGTAAAGTCATTTTACGCTTCACTGACTTTAACTTGATGGTACTGGTTAT
GGTGATTATGTCAAAATATATGATGGATTAGAGGAGAATCCACACAAGCTTTTGCCTGTGTTGACAGCTTTTGAT
TCTCATGCACCTCTTACAGTTGTTTCTTCTTCTGGACAGATAAGGGTACATTTTTTGTGCTGATAAAGTGAATGCT
GCAAGGGGATTTAATGCTACTTACCAAGTAGATGGGTTCTGTTGCCATGGGAAATACCCTGTGGAGGTAAGTGG
GGGTGTTATACTGAGCAGCAGCGTTGTGATGGGTATTGGCATTGCCCAAATGGAAGGGATGAAACCAATTGTACC
ATGTGCCAGAAGGAAGAATTTCCATGTTCCCGAAATGGTGTCTGTTATCCTCGTTCTGATCGCTGCAACTACCAG
AATCATTGCCCAAATGGCTCAGATGAAAAAACTGCTTTTTTTGCCAACCCAGGAAATTTCCATTGTAAAAACAAT
CGTTGTGTGTTTGAAGTTGGGTGTGTGATTCTCAAGATGACTGTGGTGATGGCAGCGATGAAGAAAATTGCCCA
GTAATCGTGCCTACAAGAGTCATCACTGCTGCCGTCATAGGGAGCCTCATCTGTGGCCTGTTACTCGTCATAGCA
TTGGGATGTACTTGTAAAGCTTTATTCTCTGAGAATGTTTGAAAAGAAGATCATTGAAACACAGTTGTCAAGAGTG
GAAGCAGAATTGTTAAGAAGAGAAGCTCCTCCCTCGTATGGACAATTGATTGCTCAGGGTTTAATTCCACCAGTT
GAAGATTTTCTGTTTGTTCACCTAATCAGGCTTCTGTTTTTGAAAATCTGAGGCTAGCGGTACGATCTCAGCTT
GGATTTACTTTCAGTCAGGCTTCTATGGCAGGCAGATCAAGCAACATTTGGAACCGTATTTTTTAATTTTGCAAGA
TCACGTCATTCTGGGTCAATTGGCTTTGGTCTCAGCAGATGGAGATGAGGTTGTCCCTAGTCAGAGTACCAGTAGA
GAACCTGAGAGAAATCATACTCACAGAAGTTTGTTTTCCGTGGAGTCTGATGATACAGACACAGAAAATGAGAGA
AGAGATATGGCAGGAGCATCTGGTGGGGTTGCAGCTCCTTTGCCCTCAAAAAGTCCCTCCCACAACGGCAGTAGAA
GCGACAGTAGGAGCATGTGCAAGTTCTCAACTCAGAGTACCCGAGGTGGTCATGCAGATAATGGAAGGGATGTG
ACAAGTGTGGAACCCCCAAGTGTGAGTCCAGCAGTCACCAGCTTACAAGTGCACCTCAGTCGATGACTCAGGGG
CTACGCTGGGTACGTTTTACATTAGGACGATCAAGTTCCCTAAGTCAGAACCAGAGTCCTTTGAGACAACCTTGAT
AATGGGGTAAGTGAAGAGAAGATGATGATGATGTTGAAATGCTAATTTCCAATTTCTGATGGATCTTCAGACTTT
GATGTGAATGACTGCTCCAGACCTCTTCTTGATCTTGCTCAGATCAAGGACAAGGGCTTAGACAACCATATAAT
GCAACAAATCCTGGAGTAAGGCCAAGTAATCGAGATGGCCCTGTGAGCGCTGTGGTATTGTCCACACTGCCAG
ATACCAGACACTTGCTTAGAAGTAACACTGAAAAACGAAACGAGTGATGATGAGGCTTTGTTACTTTGT**TAG**GTA
CGAATCACATAAGGGAGATTGTATACAAGTTGGAGCAATATCCATTTATTATTTGTAACCTTTACAGTTAAACTA
GTTTTAGTTTAAAAAGAAAAATGCAGGGTGATTTCTTATTATTATATGTTAGCCTGCATGGTTAAATTTCGACAA
CTTGTAACCTCTATGAACTTAGAGTTTACTATTTTAGCAGCTAAAAATGCATCACATATTTCATATTGTTCAATAAT
GTCCTTTCAATTTGTTTCTGATTGTTTTCATCCTGATACTGTAGTTCACTGTAGAAATGTGGCTGCTGAAACTCAT
TTGATTGTCAATTTTATCTATCCTATGTTAAATGGTTTGTGTTTTACAAAATAATACCTTATTTTAATTGAAACGT
TTATGCTTTTGCCAACACATCTTGTAACCTTAATATACTAGATGTTAAGGTTGTTAATGTACAAAAAAAACCCCT
TATACTCACCTGCGTTTTTCAATTTGTTTGACATTTGTCTATTATTGGATTTCAATTATCATATGAACTTGTCACTGG
GAAACAAACTGTCTAAAAATTTTTCTCTTACGTTTAAACATACAATCATGTGAAATTTAGGCAGAGTTTCGATAAAT
TACTGGCAAAAAACAACTCTTTTATAAAGATTTTCTAATGTTGACTTTAATACTCTAACATGGTACAAACCAAA
TGGTAAAATCCCAAGTCATTTCTTTTTTTCATCTCTATTTAGCAACAGAATTAAGTGGATGAAGATATTCTACTAT
GCATTAAATCTTGAACTTTATAAAACATGTACAAAAATTGTACAAGATAAGTTCCACCTGGTAATGTCTTTCCCT
AATACAGGGTTGCGCTTGCATTGGACCCTAGGGATTTGCACTAAAATTATATCAAGGTCTCAGATGAGCTTAGTG
CACAAGCACTATCACTTTAAATACTATTATTTGCTACCACAGCAACTATATATTTCCATAGCTTTTGGCTGGGGG